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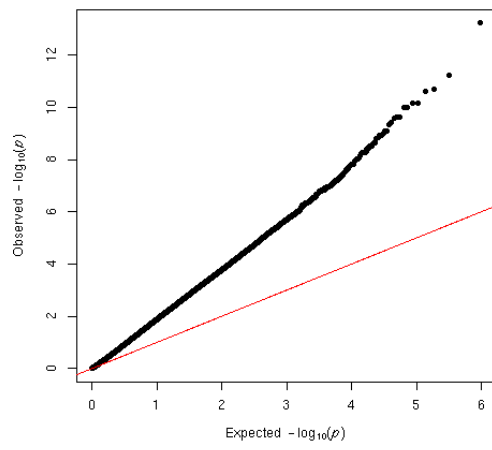
# Supplementary Figures

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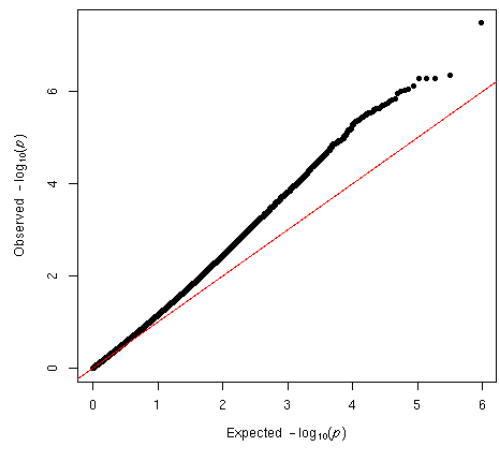
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QQ-plots for cell-adjusted continuous BMI model

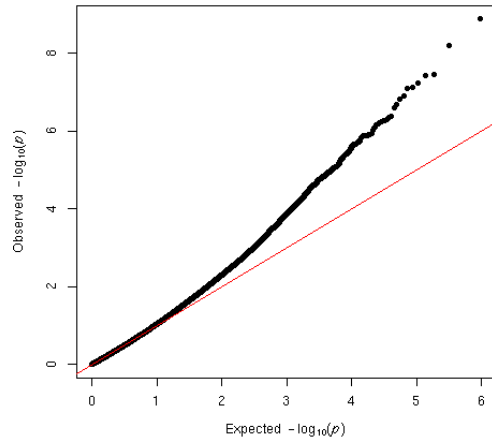
Fixed-effects meta-analysis - Lambda =2.409



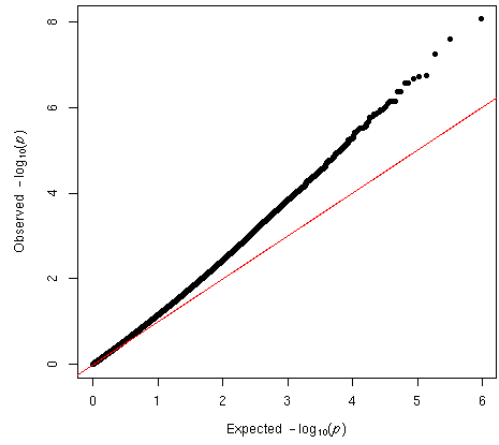
ALSPAC Lambda = 1.179



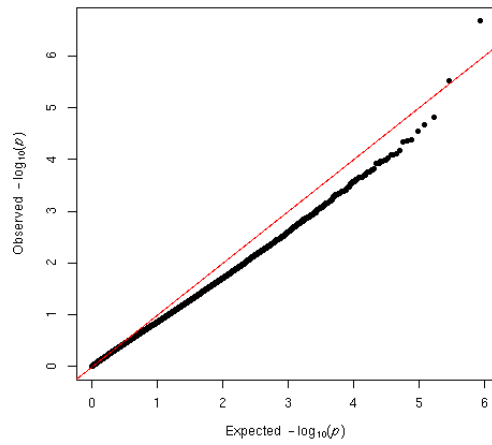
CBC\_hispanic Lambda = 0.926



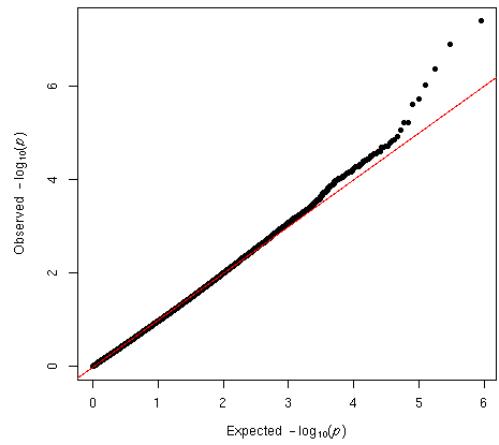
CBC\_white Lambda = 1.162



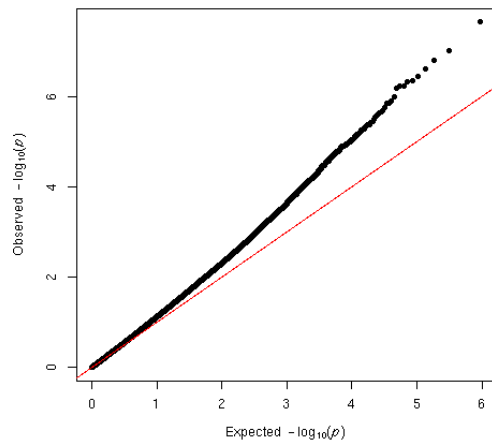
CHAMACOS Lambda = 0.834



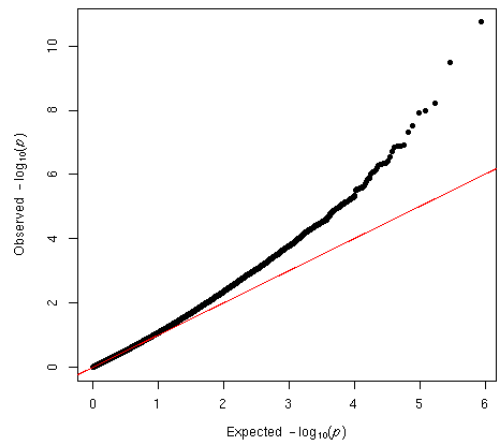
EARLI Lambda = 0.923



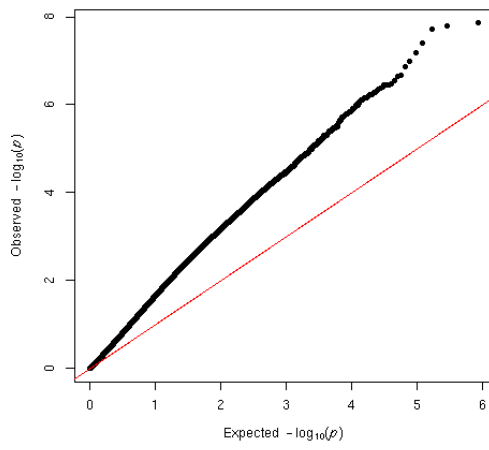
GECKO Lambda = 1.153



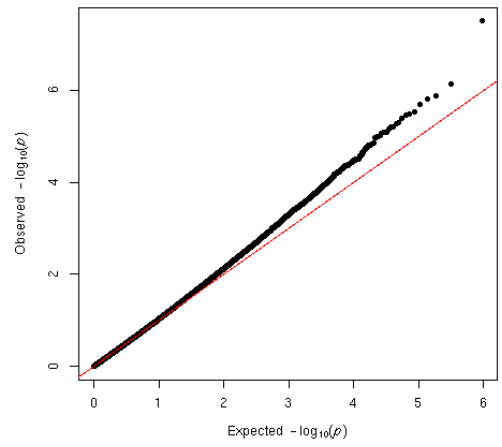
GEN3G Lambda = 1.039



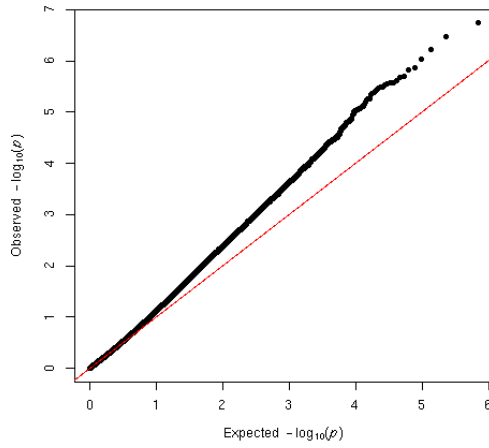
GENR Lambda = 1.996



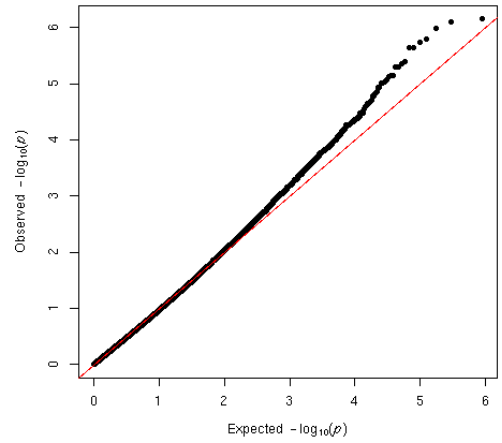
GOYArandom Lambda = 1.01



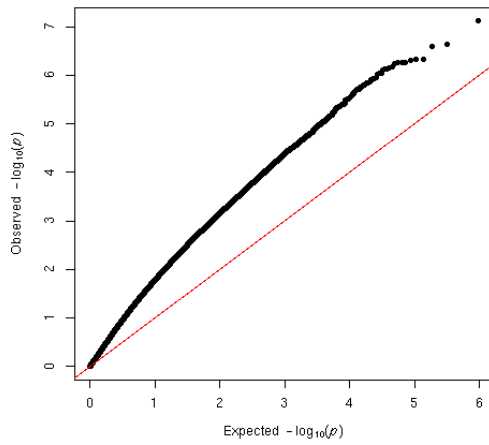
IOW Lambda = 1.05



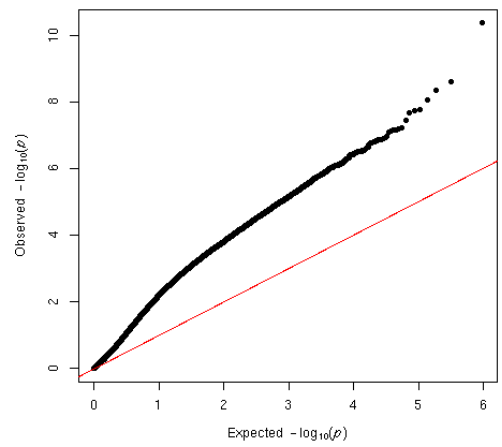
MEDALL Lambda = 0.917



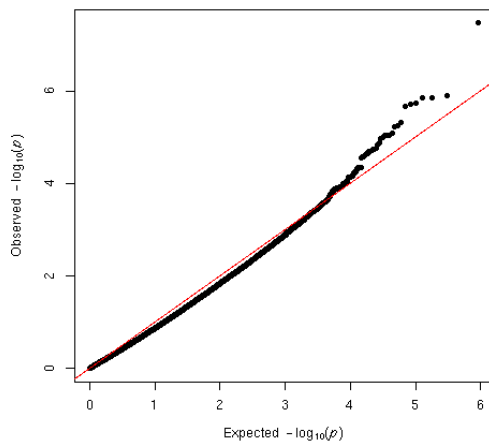
MOBA1 Lambda = 2.739



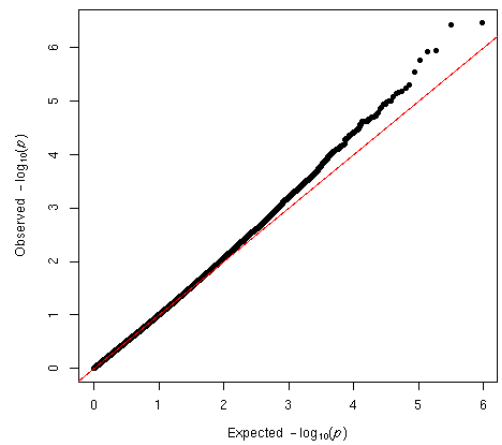
MOBA2 Lambda = 2.763



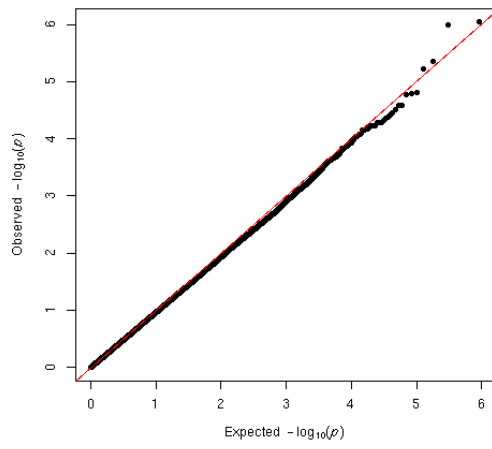
MOBA3 Lambda = 0.759



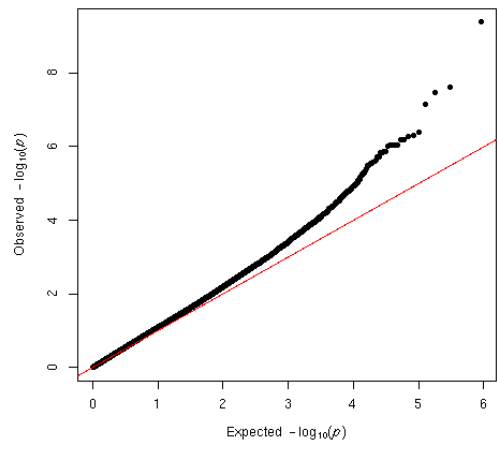
NCL Lambda = 0.985



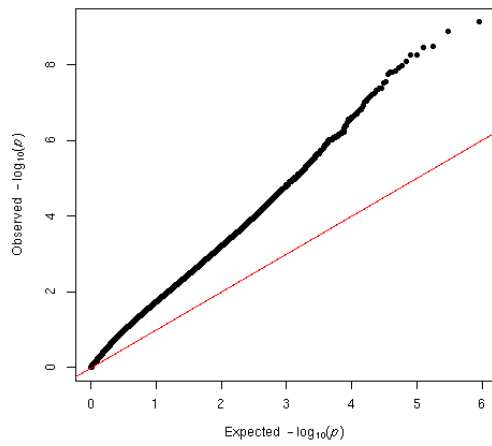
NEST Lambda = 0.929



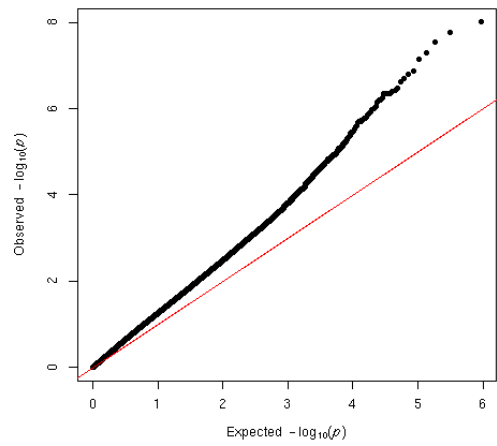
NHBCS Lambda = 1.167



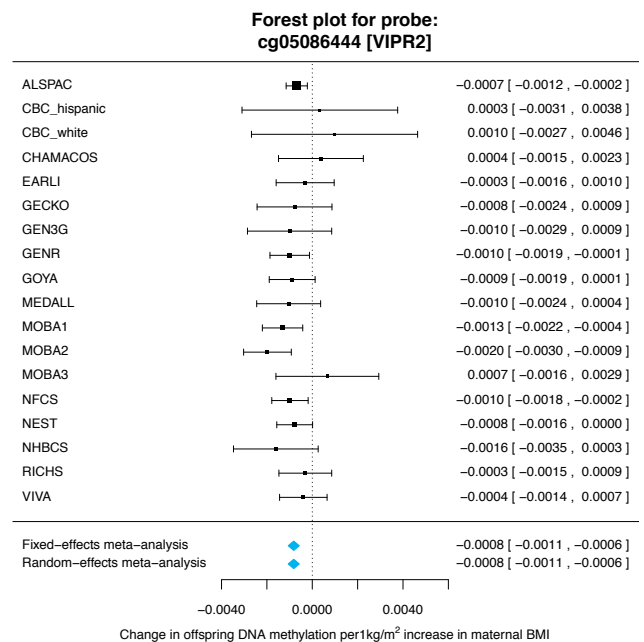
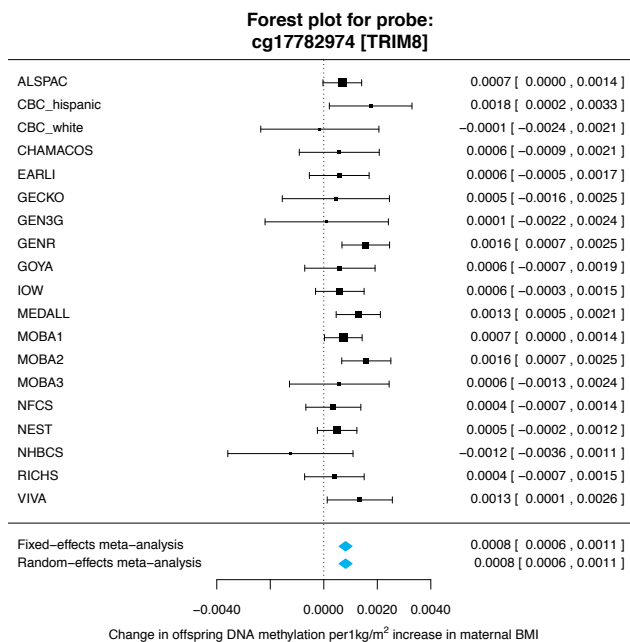
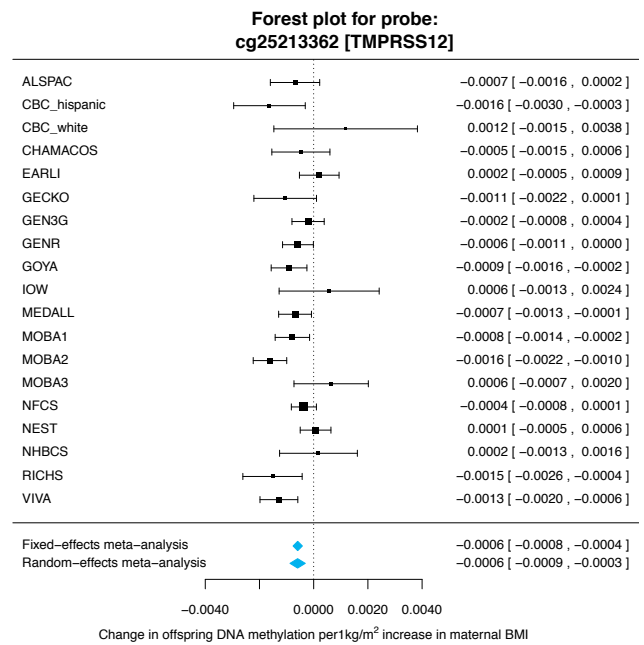
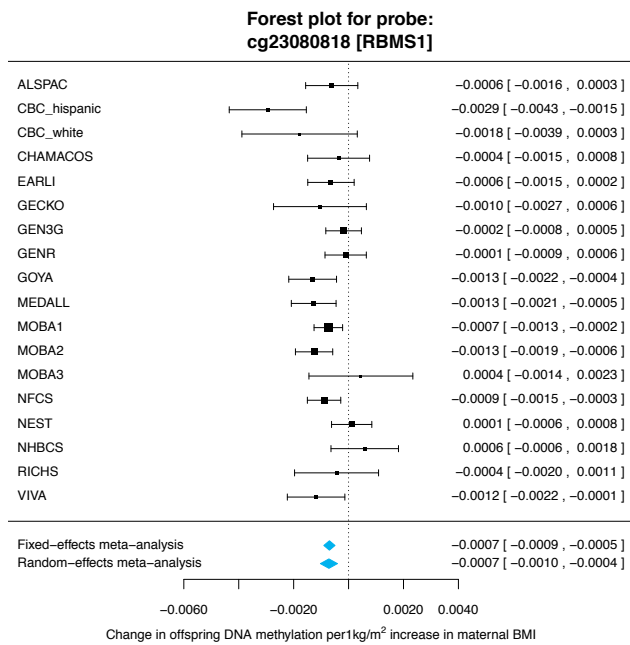
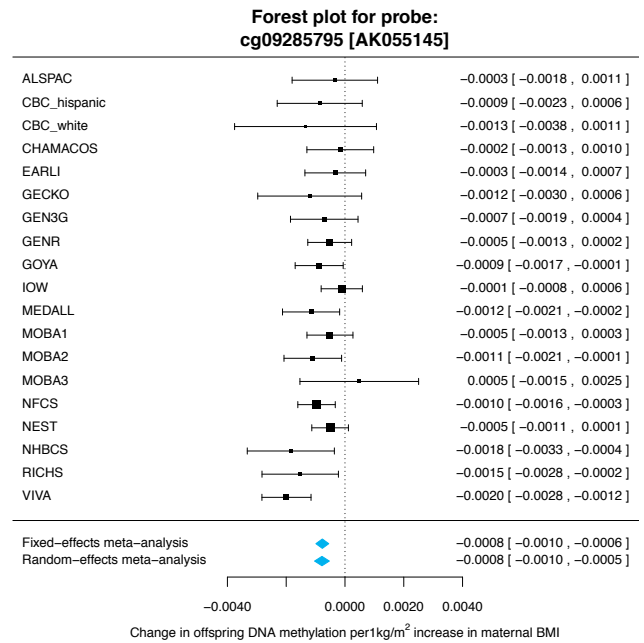
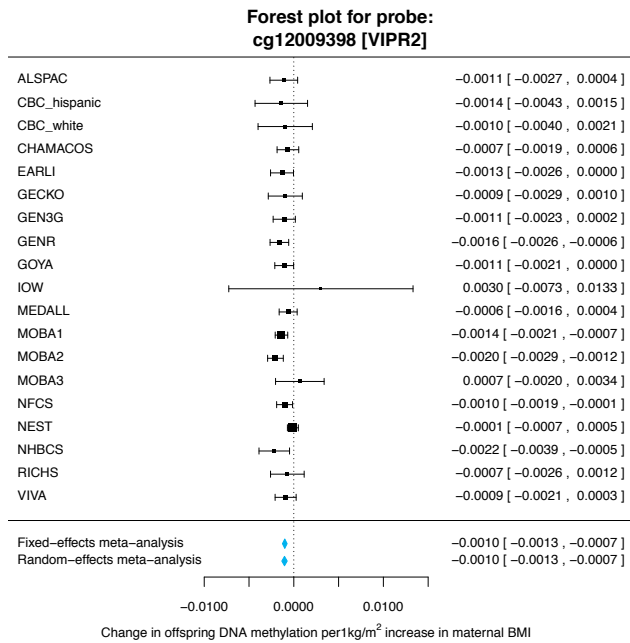
RICHs Lambda = 2.974



VIVA Lambda = 1.49

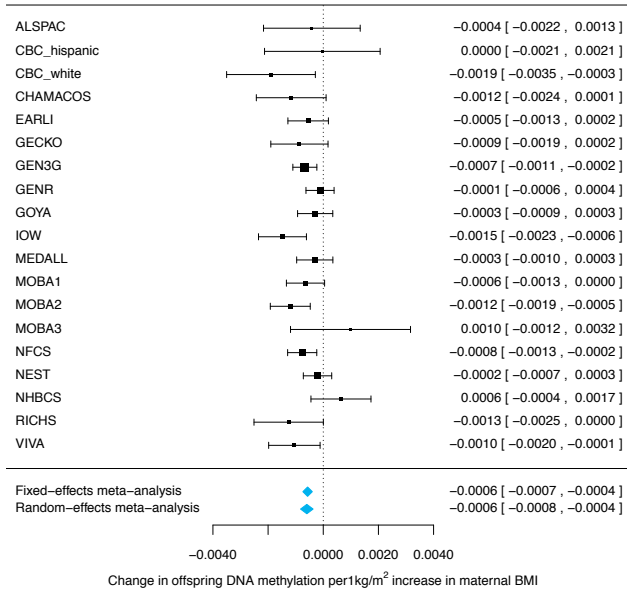


Forest plots for the cell-adjusted continuous BMI model

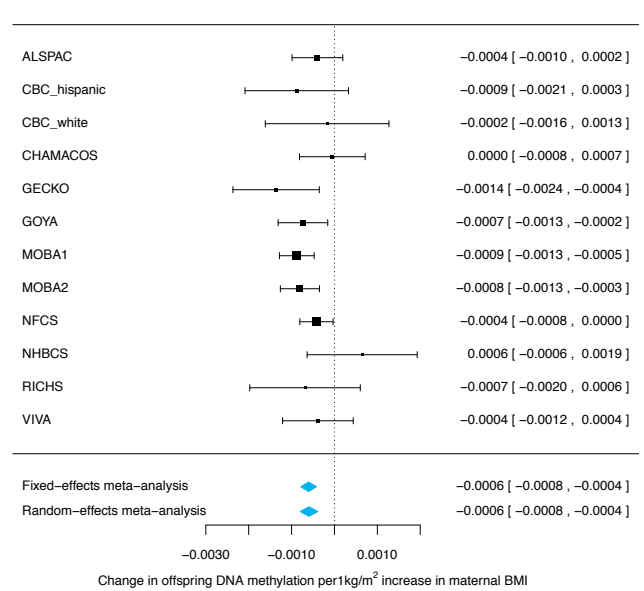




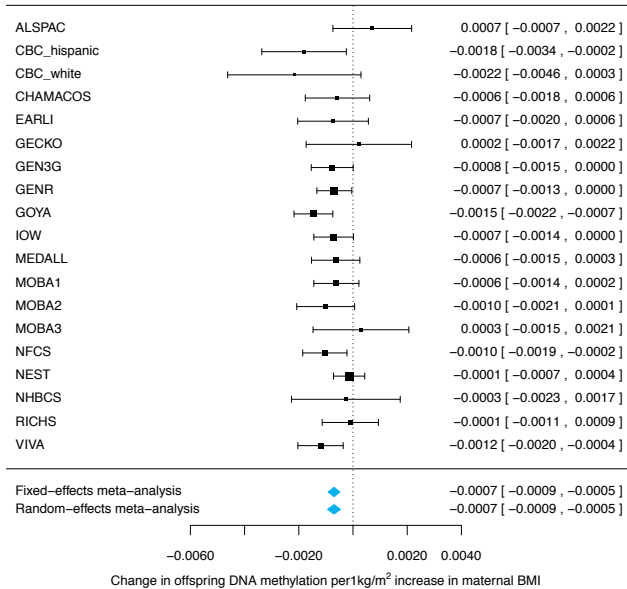
**Forest plot for probe:  
cg03258665 [EPHA2]**



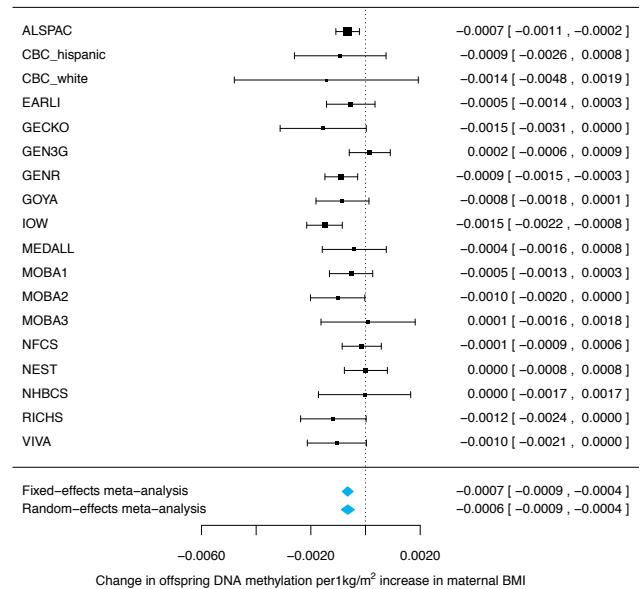
**Forest plot for probe:  
cg20065216 [DUSP16]**



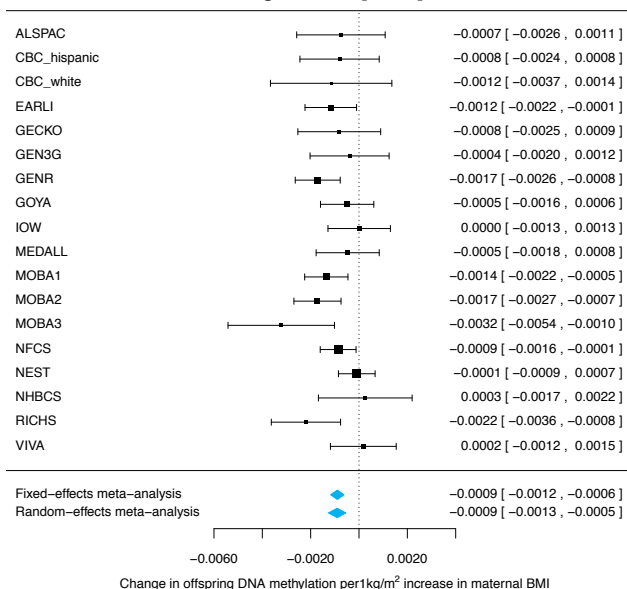
**Forest plot for probe:  
cg26434090 [DSCAML1]**



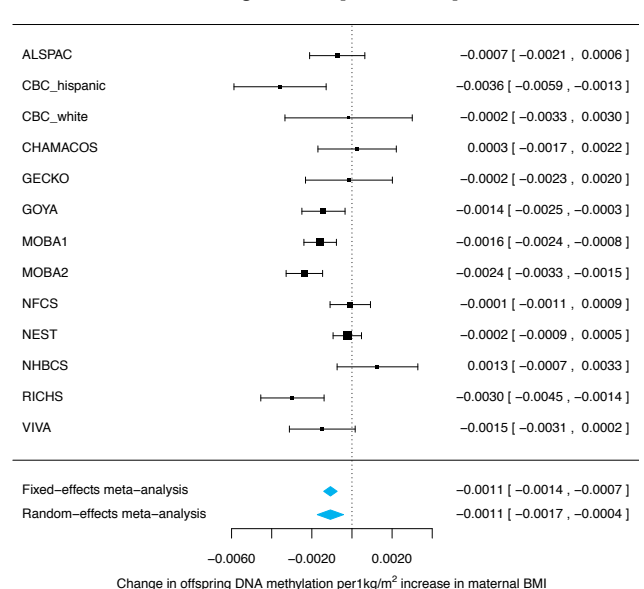
**Forest plot for probe:  
cg18268562 [FOXR1]**



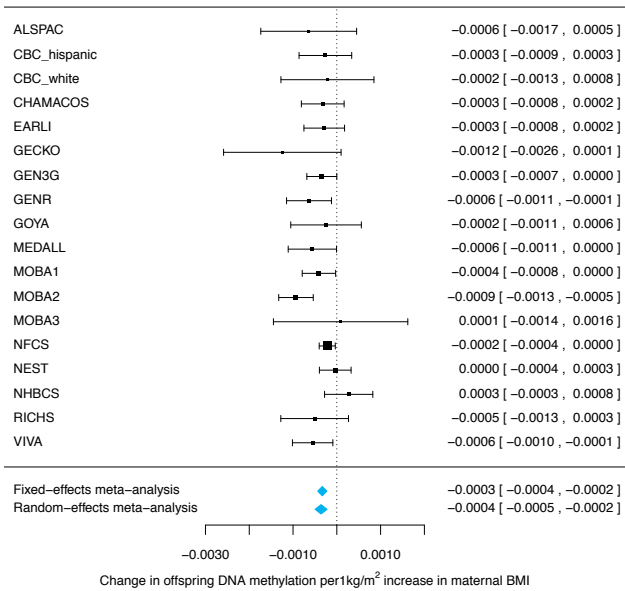
**Forest plot for probe:  
cg00285394 [SQLE]**



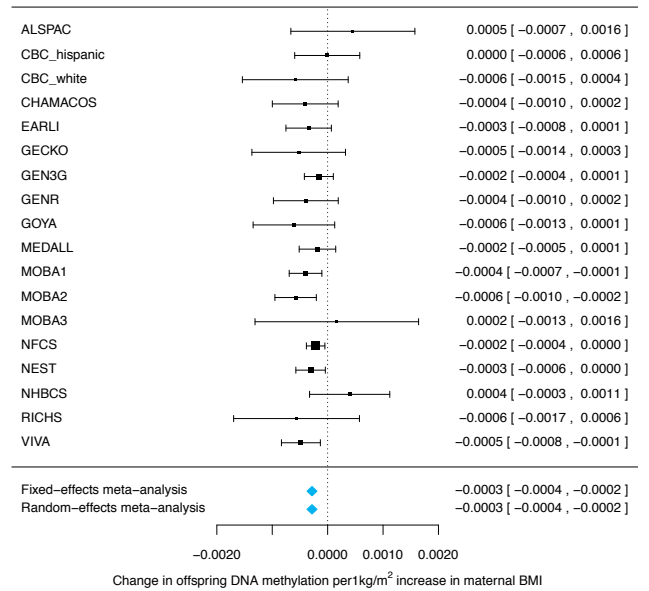
**Forest plot for probe:  
cg27179375 [POM121L1P]**



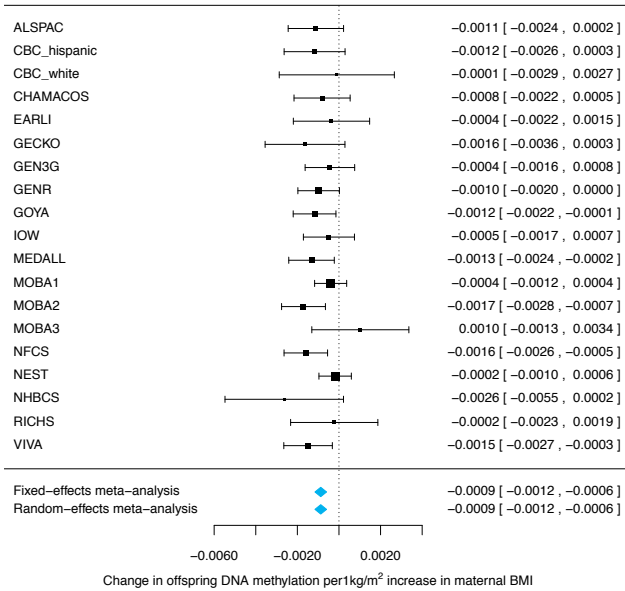
**Forest plot for probe:  
cg05586134 [PTCRA]**



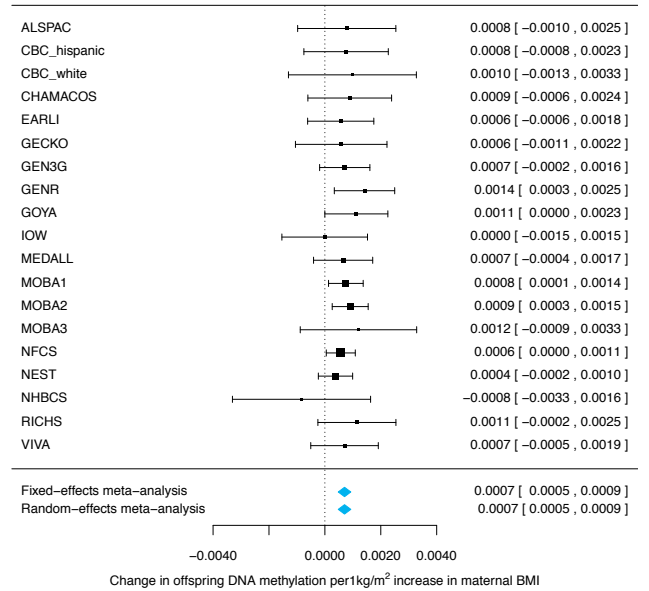
**Forest plot for probe:  
cg07357021 [PRICKLE2]**



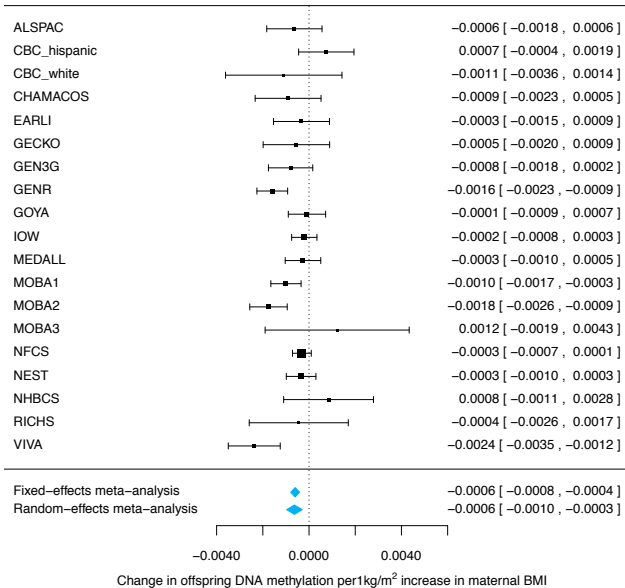
**Forest plot for probe:  
cg21778193 [MIR200B]**



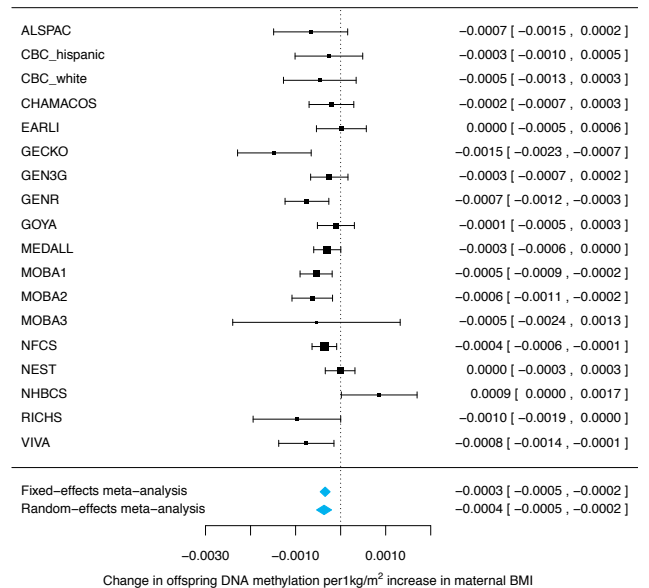
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cg04836151 [LY6H]**

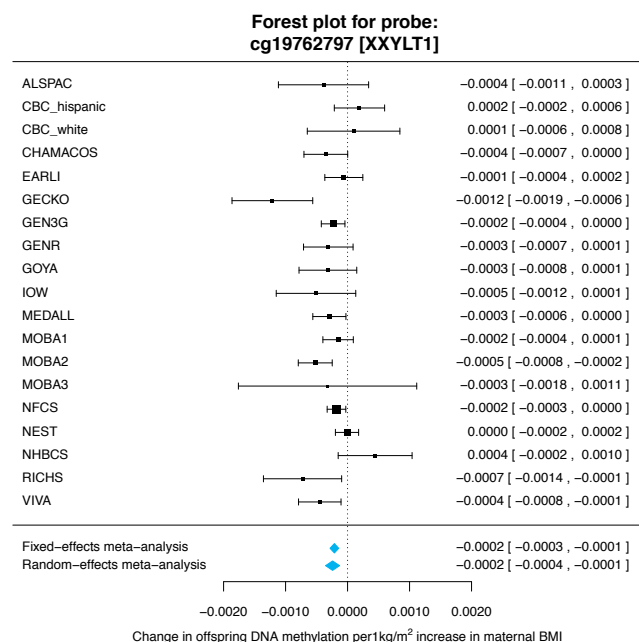
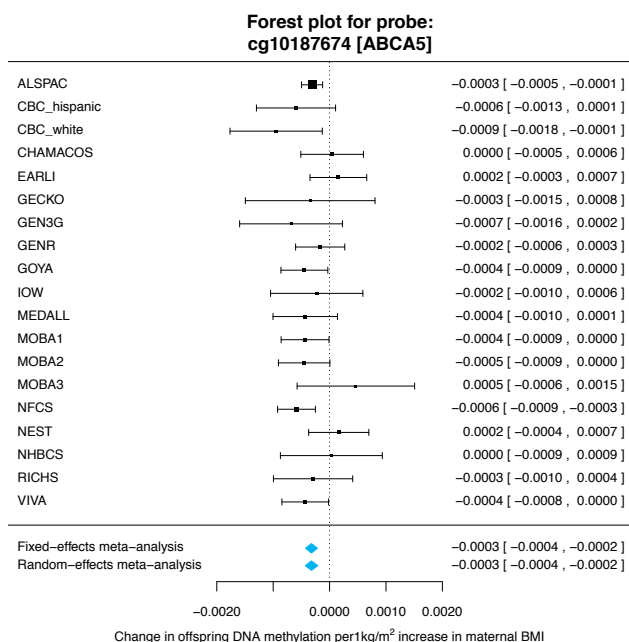
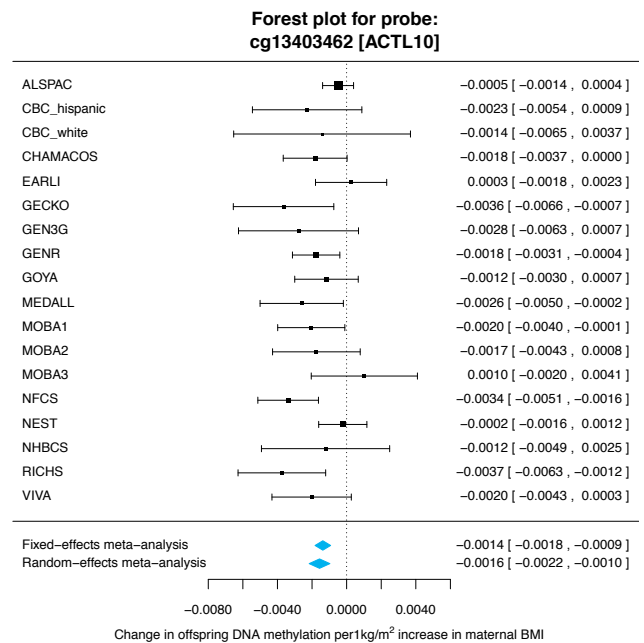
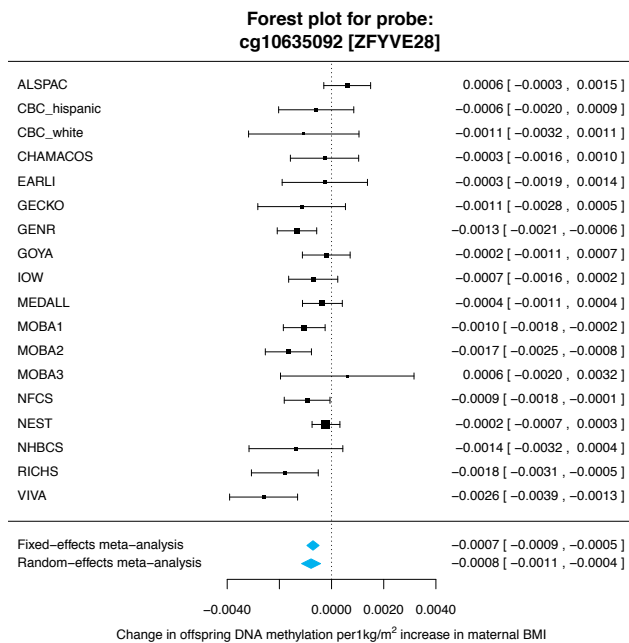
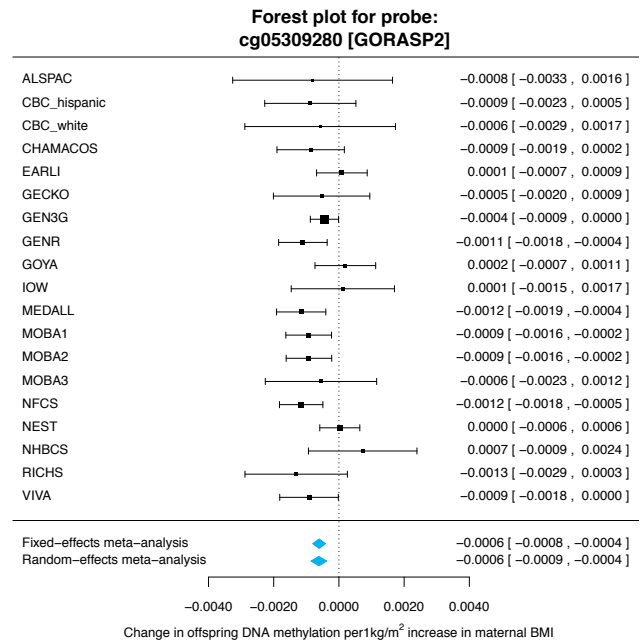
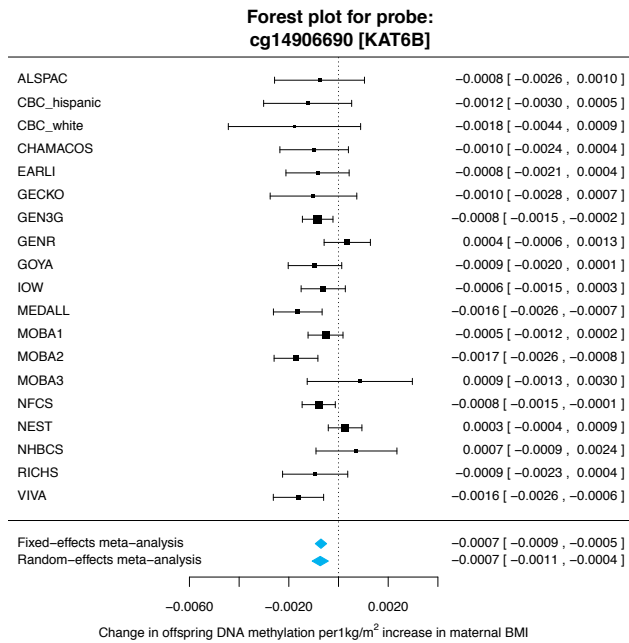


**Forest plot for probe:  
cg09243648 [BC031827]**

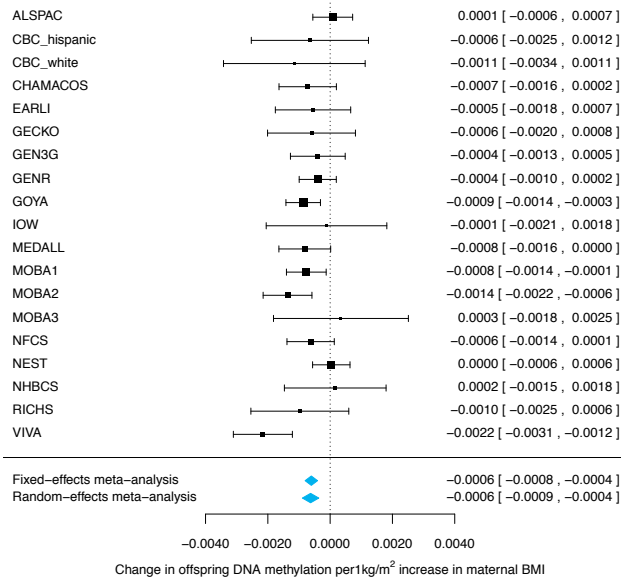


**Forest plot for probe:  
cg07822775 [PCSK6]**

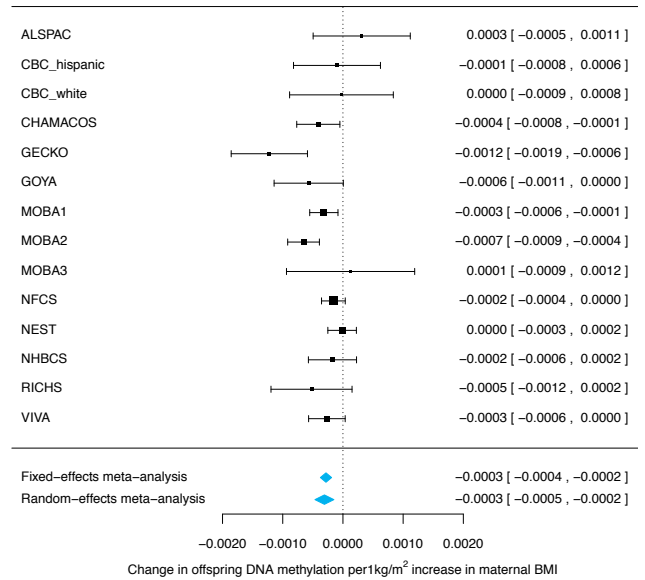




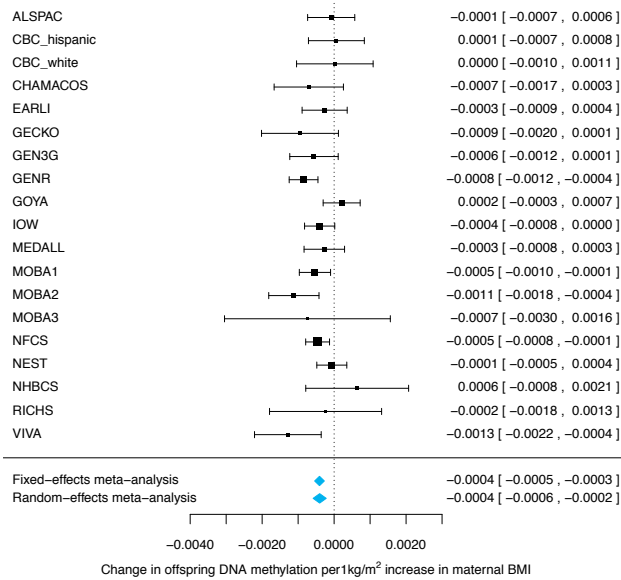
**Forest plot for probe:  
cg09230763 [MAP3K6]**



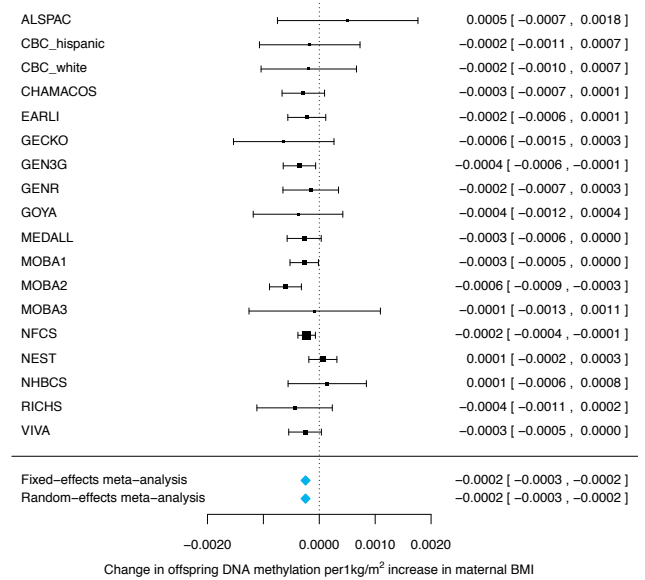
**Forest plot for probe:  
cg18156417 [MAP2K2]**



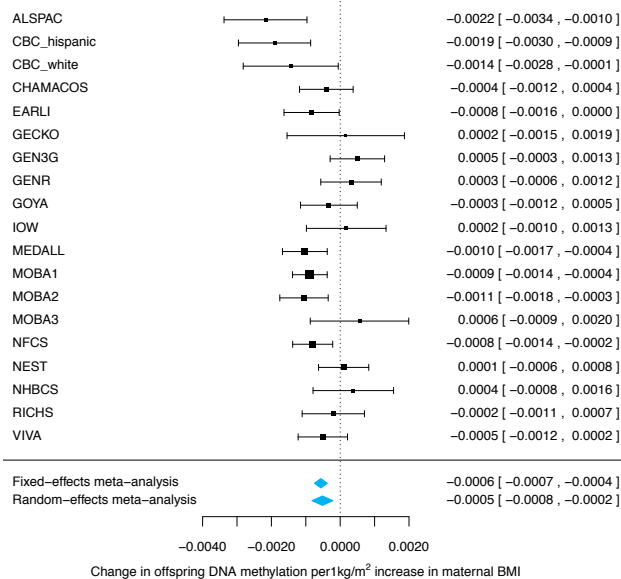
**Forest plot for probe:  
cg26220185 [AK127048]**



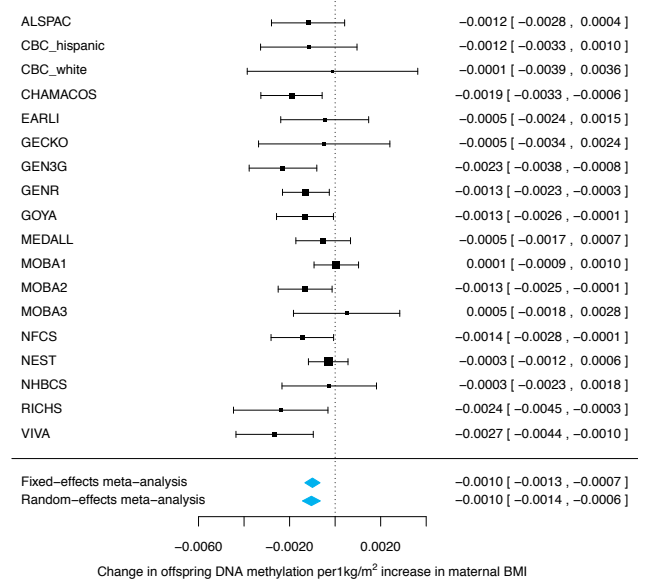
**Forest plot for probe:  
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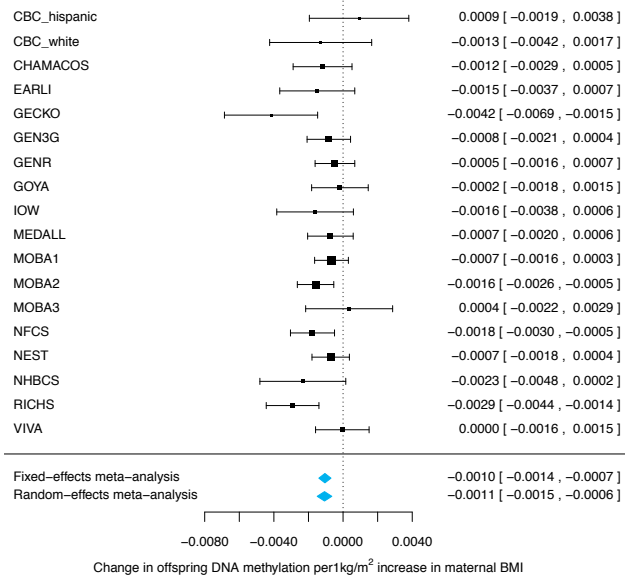
**Forest plot for probe:  
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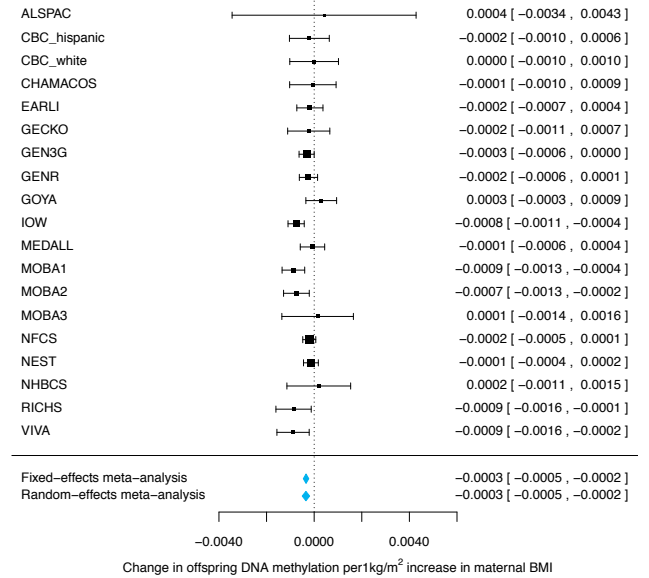
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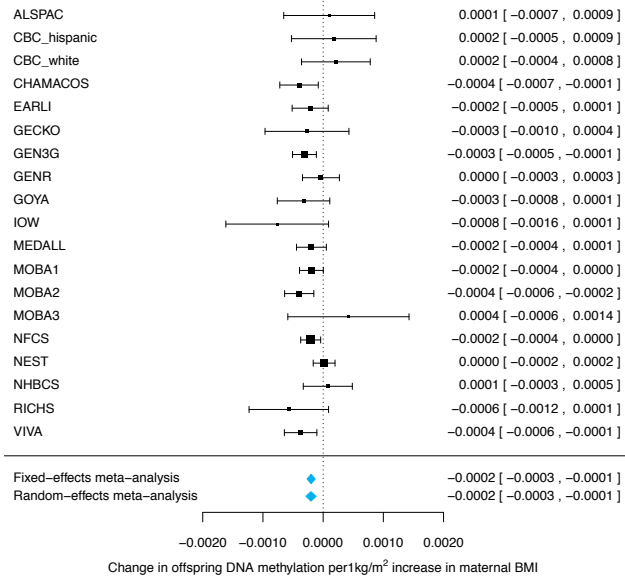
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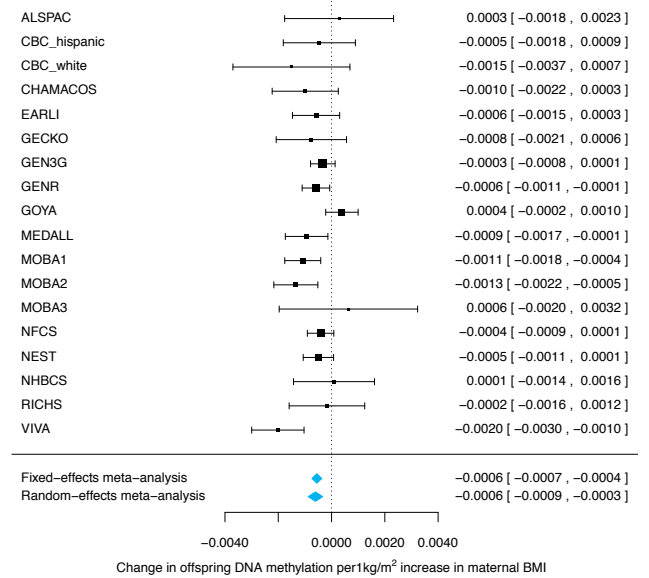
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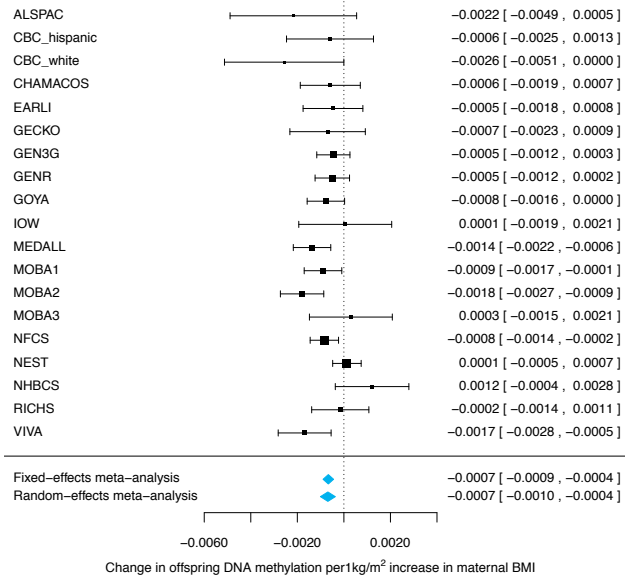
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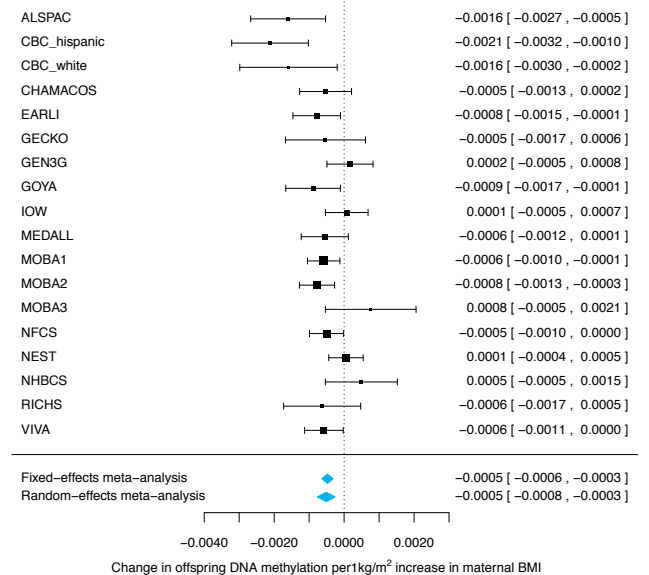
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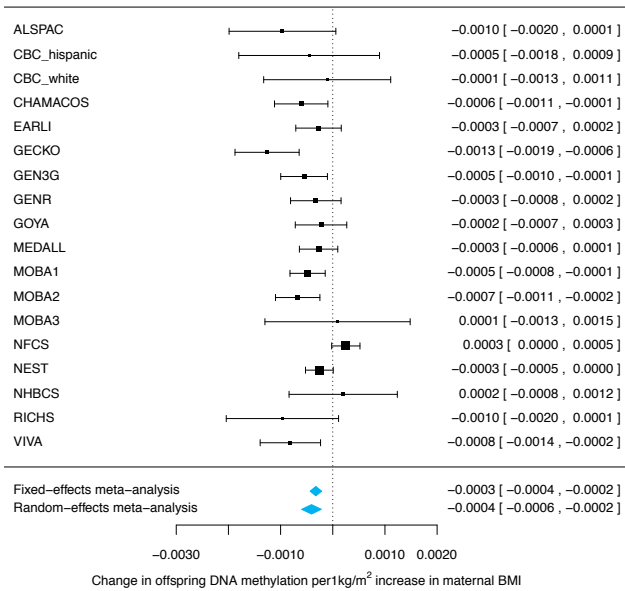
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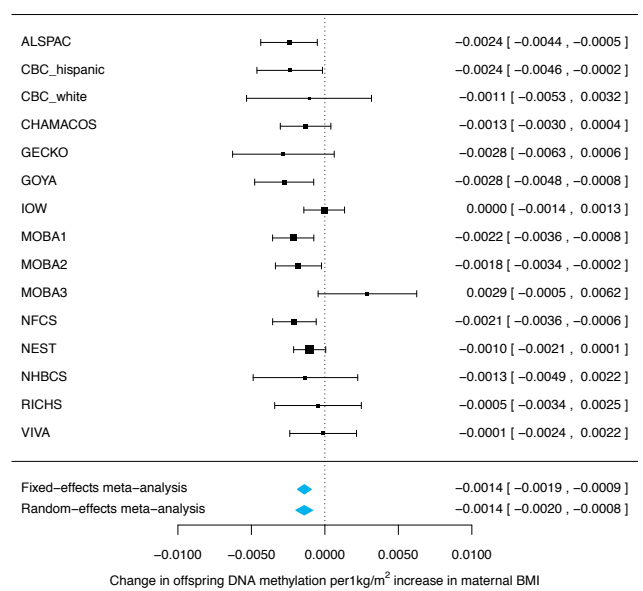
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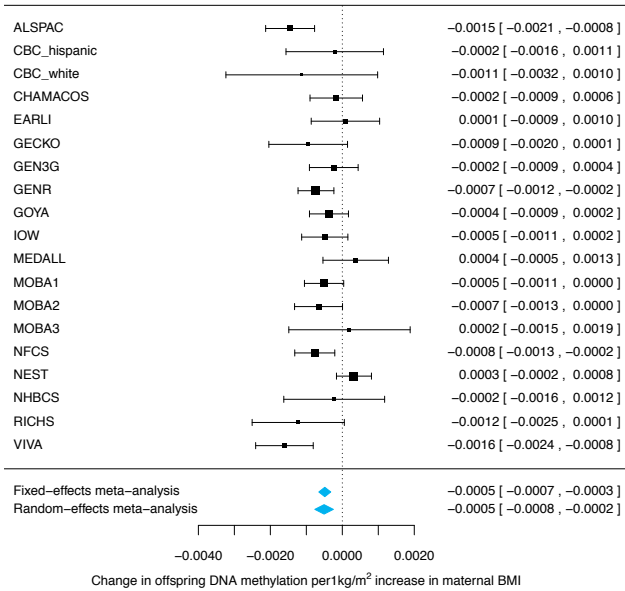
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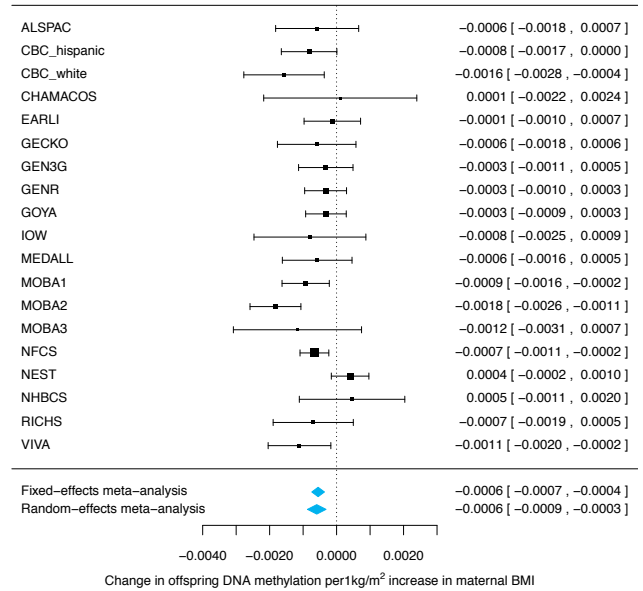
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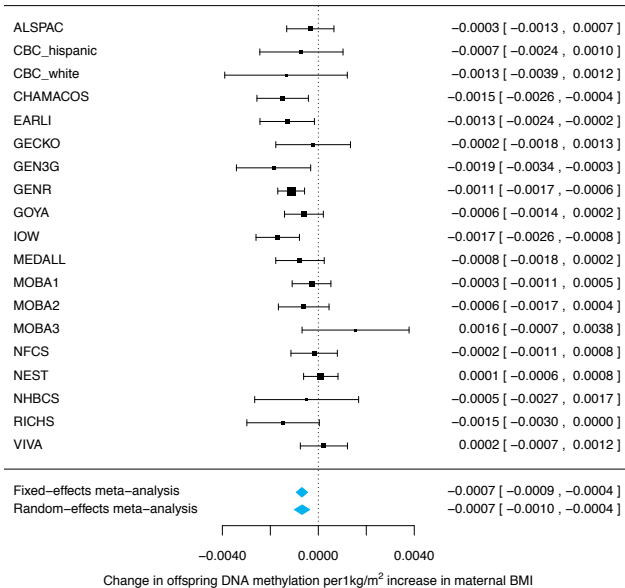
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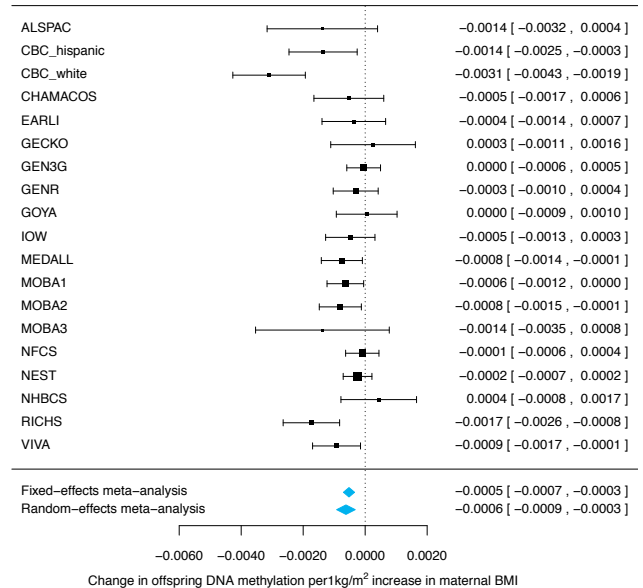
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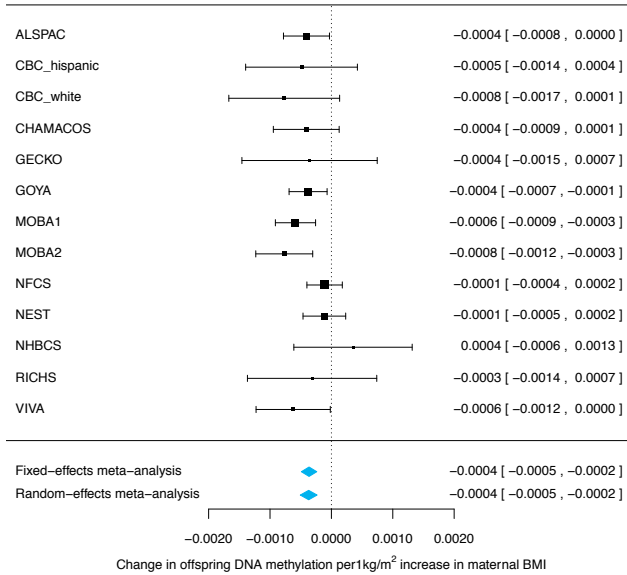
**Forest plot for probe:  
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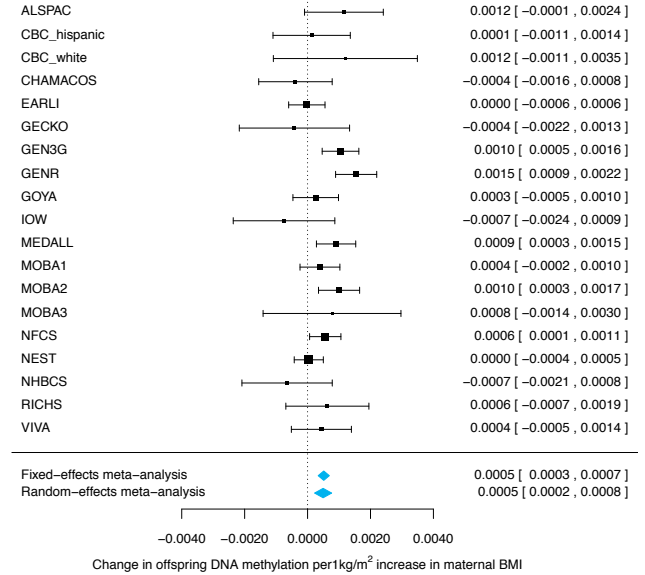
**Forest plot for probe:  
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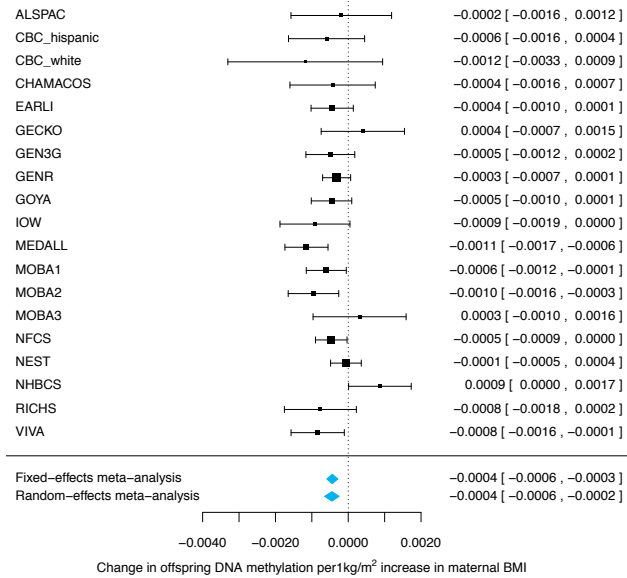
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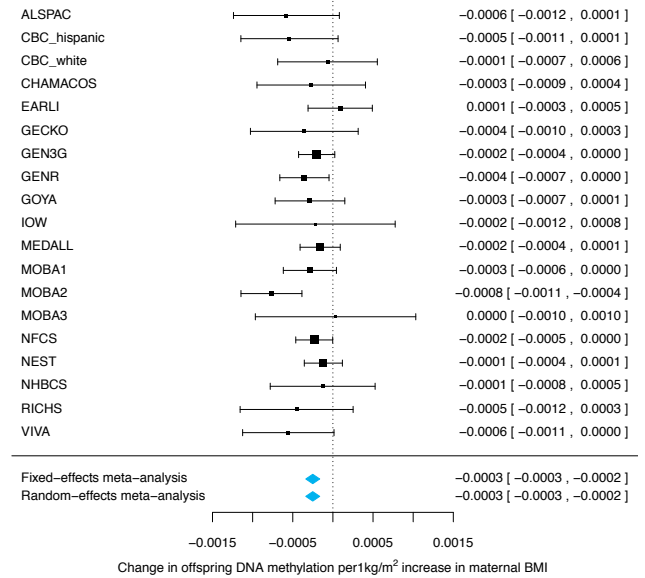
**Forest plot for probe:  
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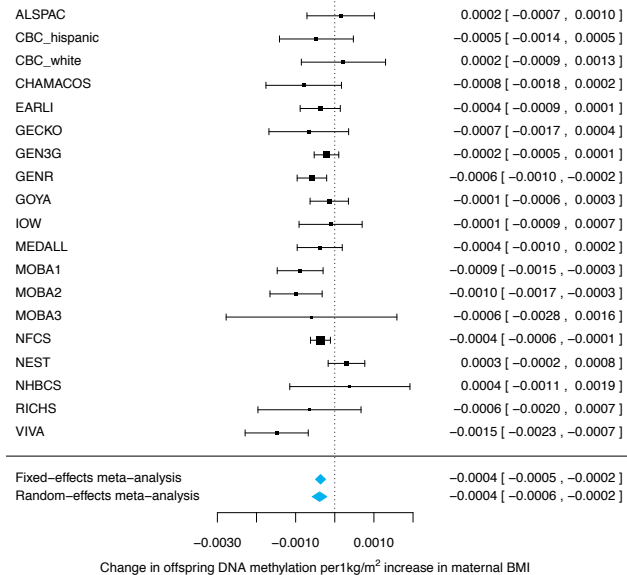
**Forest plot for probe:  
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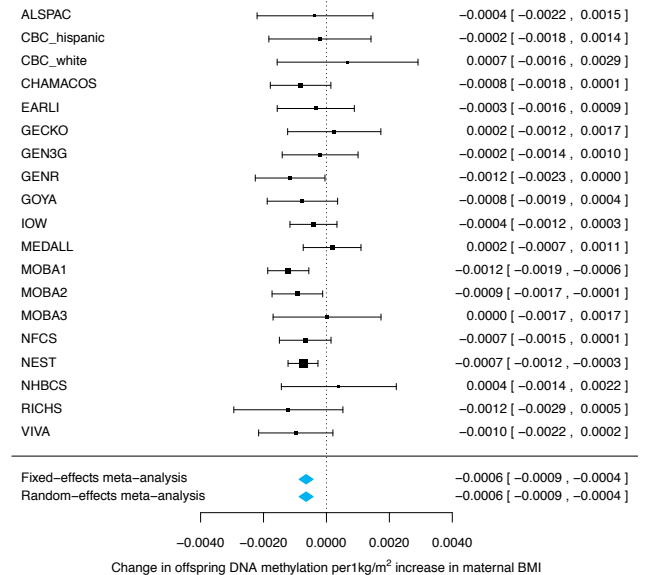
**Forest plot for probe:  
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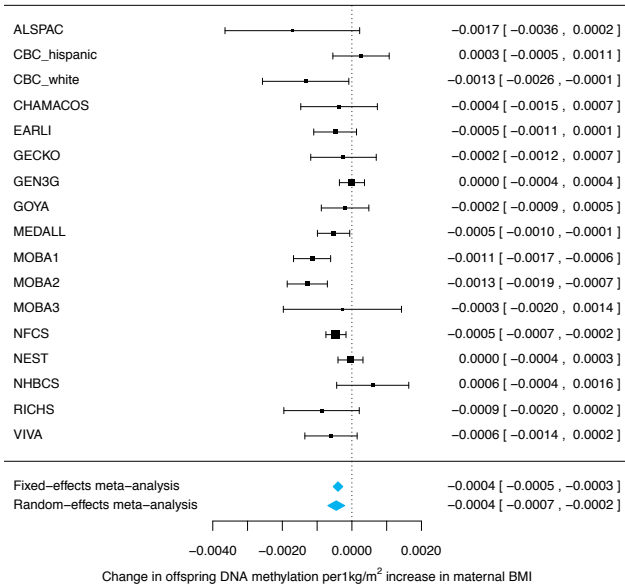
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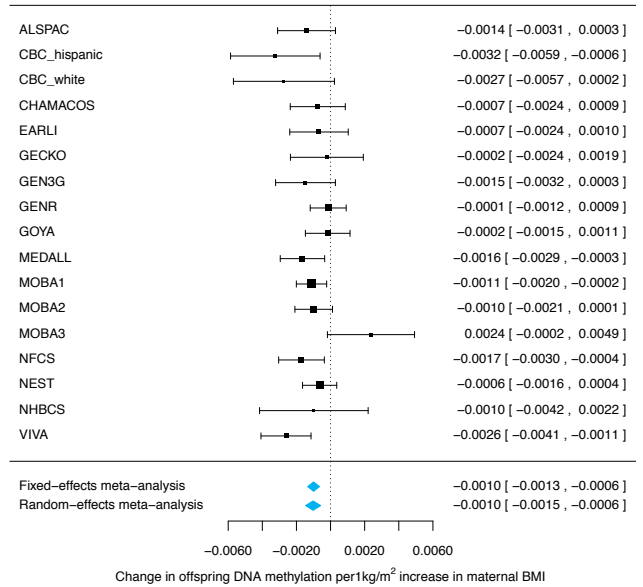
**Forest plot for probe:  
cg17514558 [PCDHB19P]**



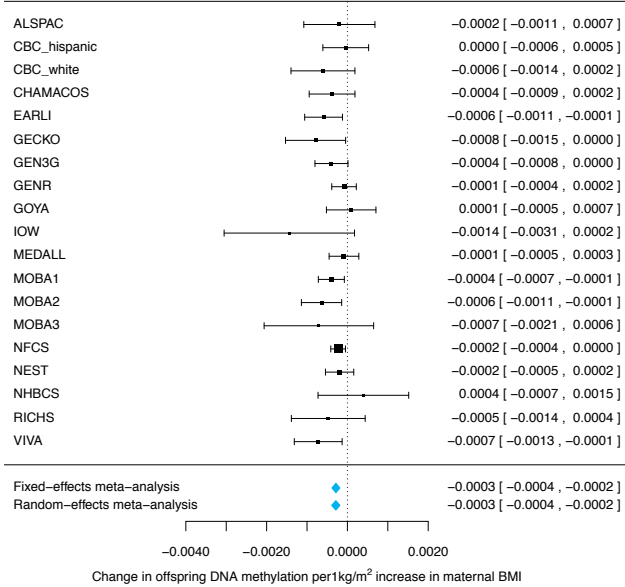
**Forest plot for probe:  
cg15240102 [LOC286083]**



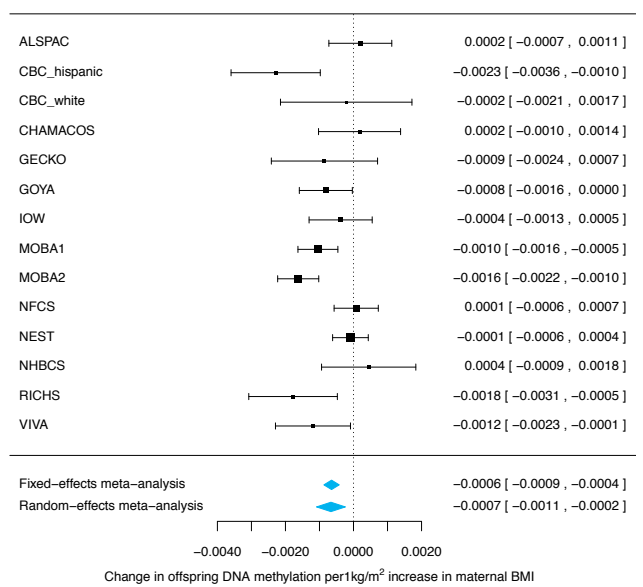
**Forest plot for probe:  
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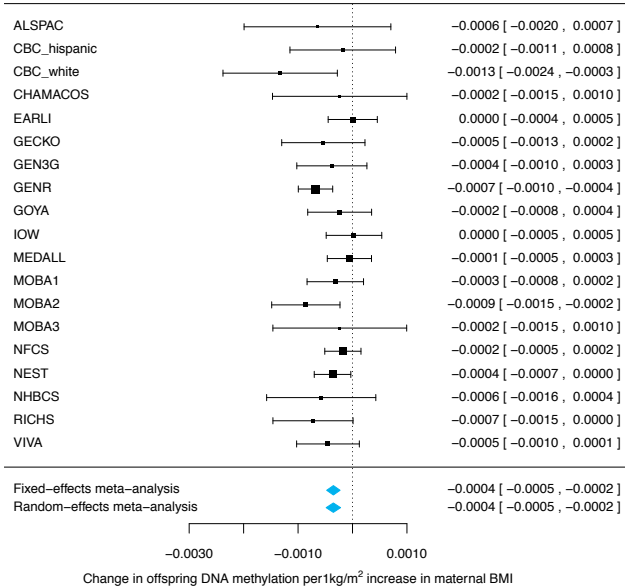
**Forest plot for probe:  
cg18995031 [RASA3]**



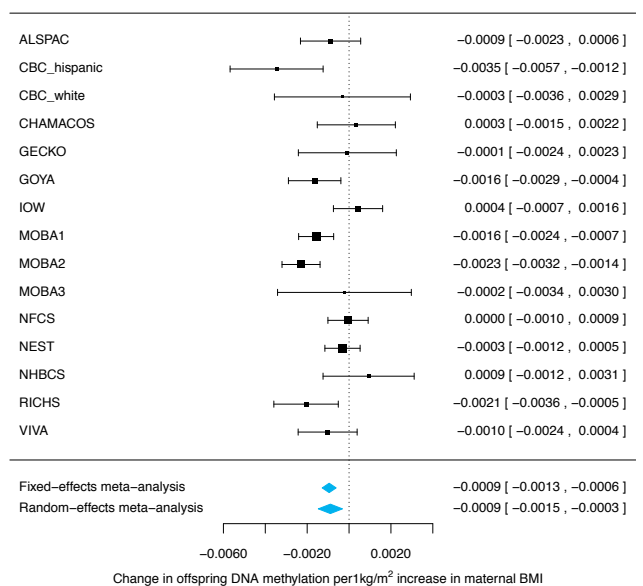
**Forest plot for probe:  
cg04027757 [POM121L1P]**



**Forest plot for probe:  
cg01963618 [LOC285768]**

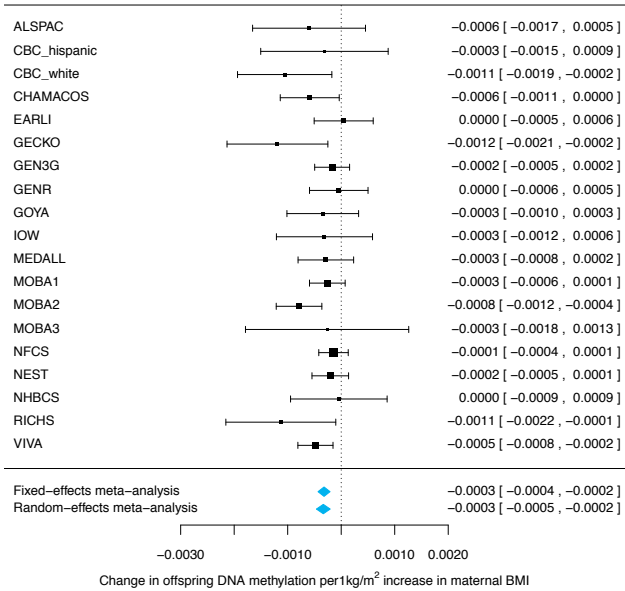


**Forest plot for probe:  
cg21445553 [GGTLC1]**

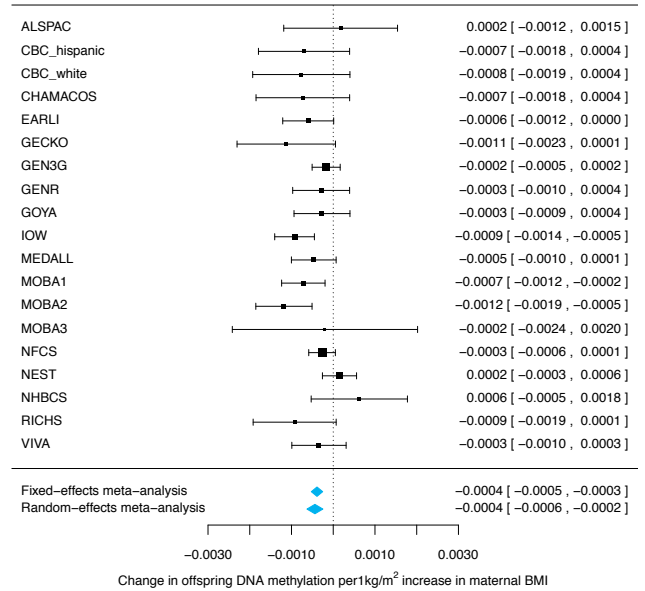




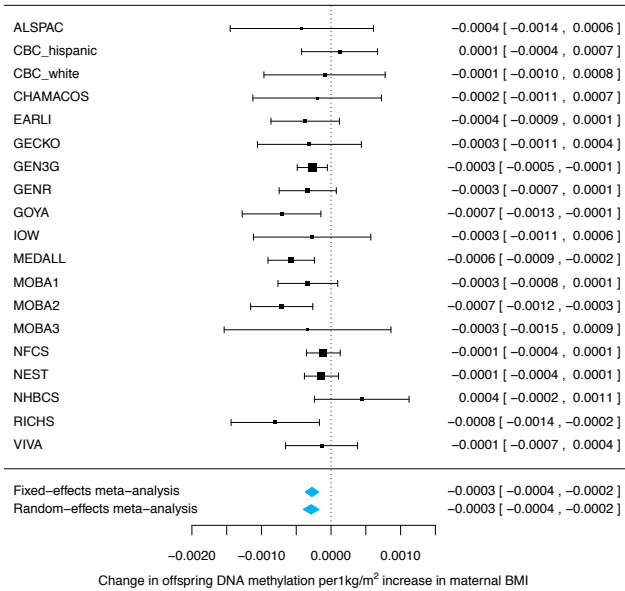
**Forest plot for probe:  
cg05976575 [CMTM2]**



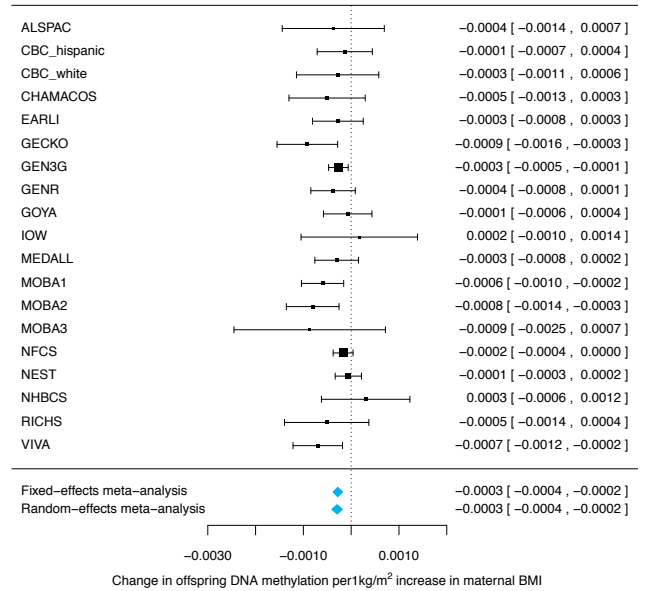
**Forest plot for probe:  
cg13758186 [CREG2]**



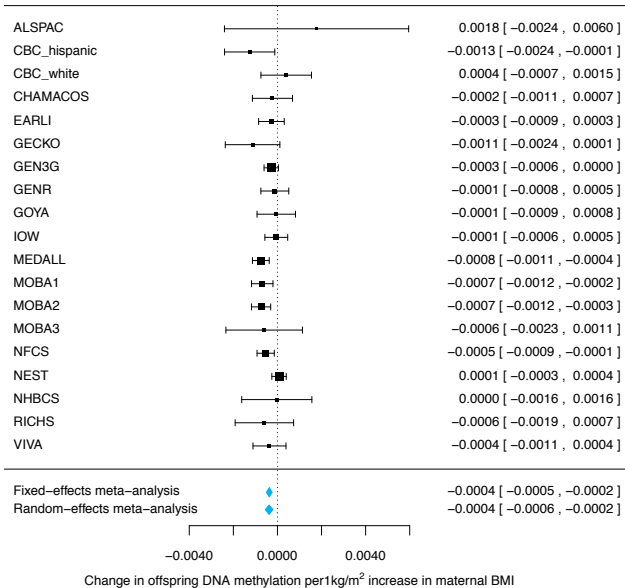
**Forest plot for probe:  
cg20710902 [DQ594093]**



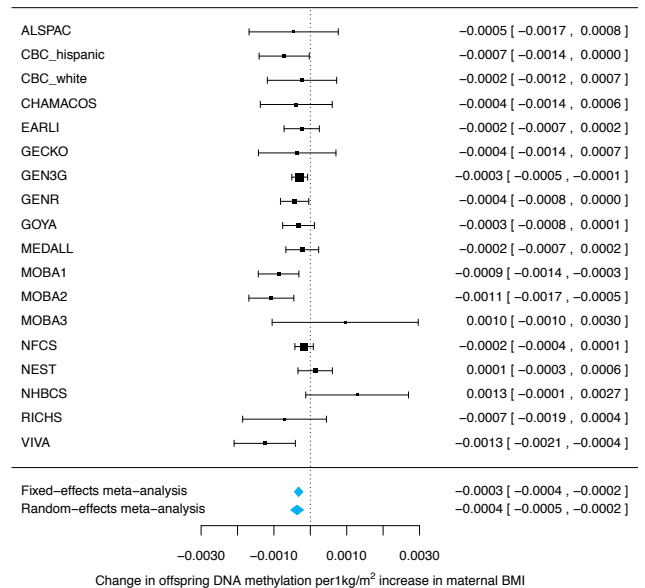
**Forest plot for probe:  
cg03046925 [TRIM15]**



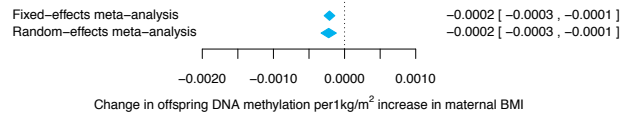
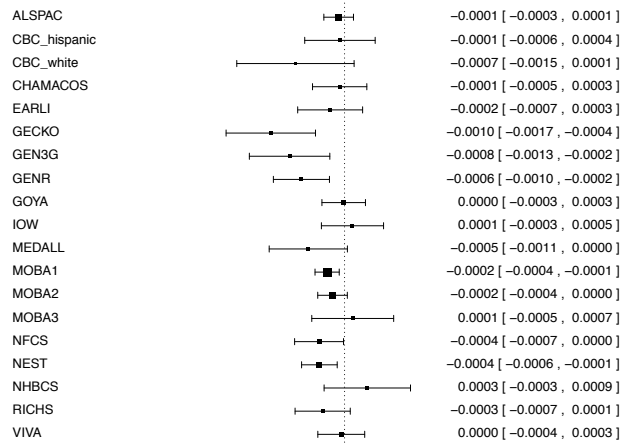
**Forest plot for probe:  
cg18330571 [MIR4297]**



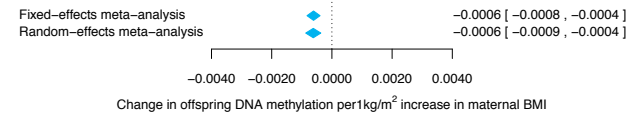
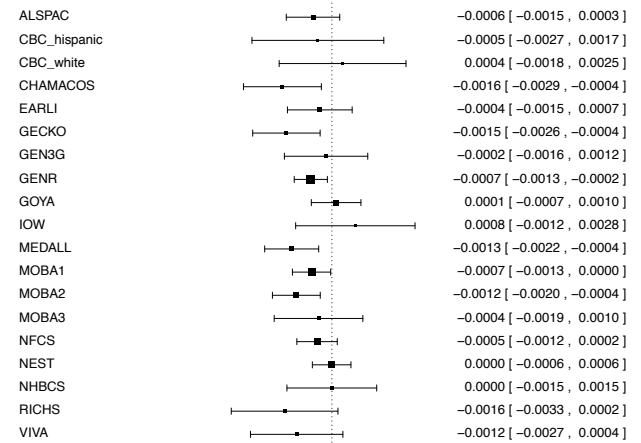
**Forest plot for probe:  
cg11156132 [PRKCD]**



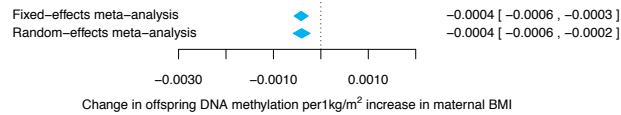
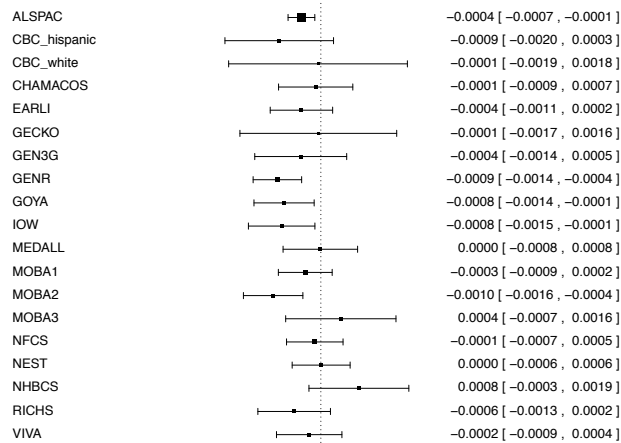
**Forest plot for probe:  
cg18499001 [Y\_RNA]**



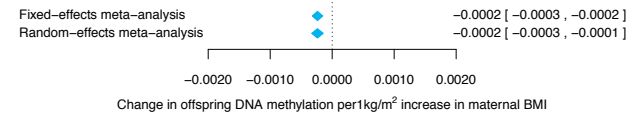
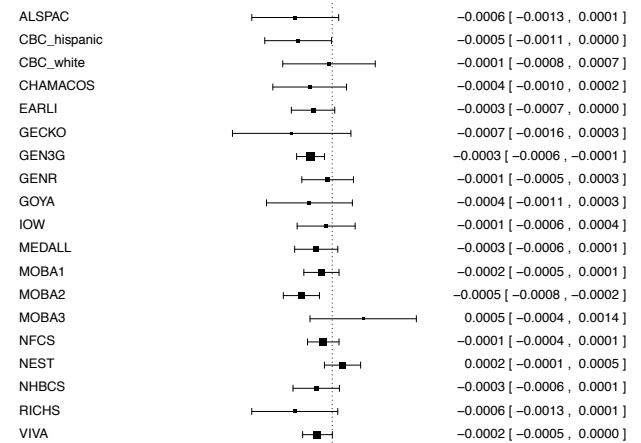
**Forest plot for probe:  
cg05113927 [UCN]**



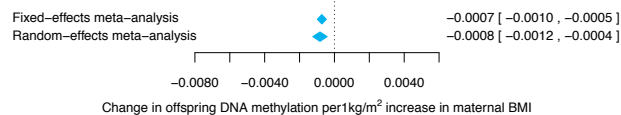
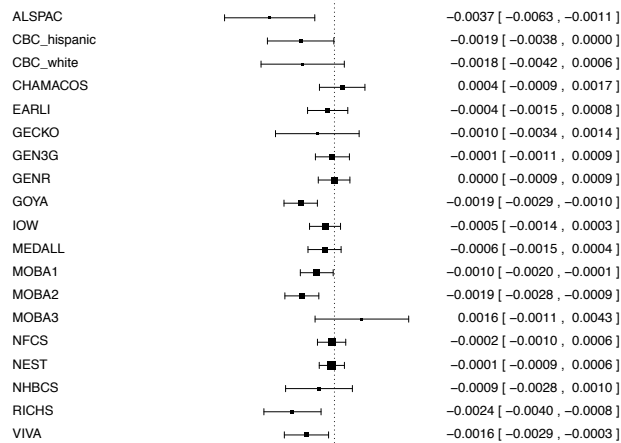
**Forest plot for probe:  
cg22670329 [CXCL6]**



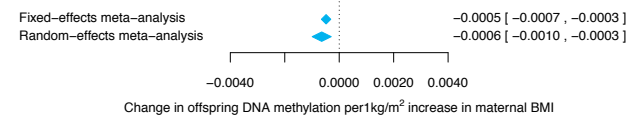
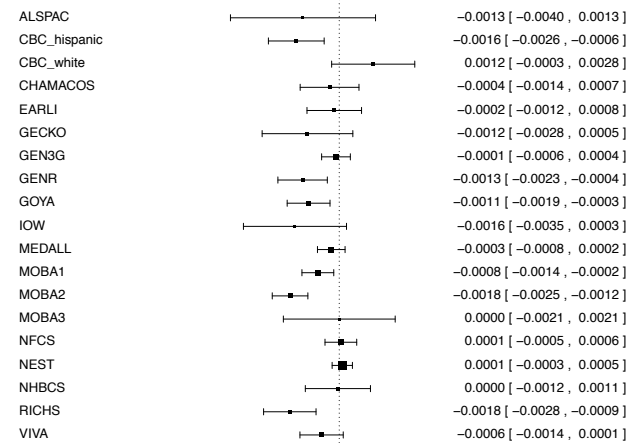
**Forest plot for probe:  
cg15913725 [TSSC1]**



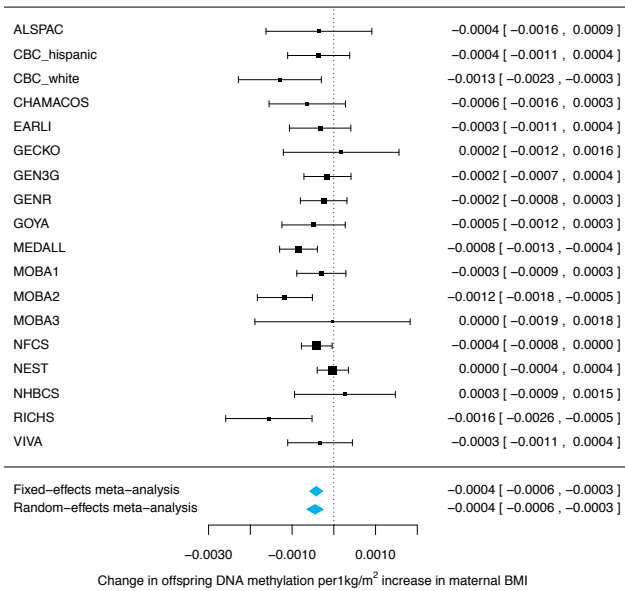
**Forest plot for probe:  
cg01881287 [EFCAB10]**



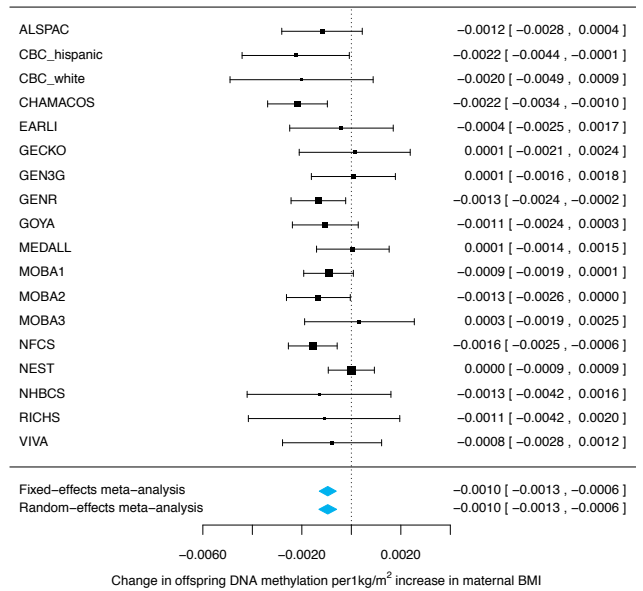
**Forest plot for probe:  
cg05635274 [PRSS21]**



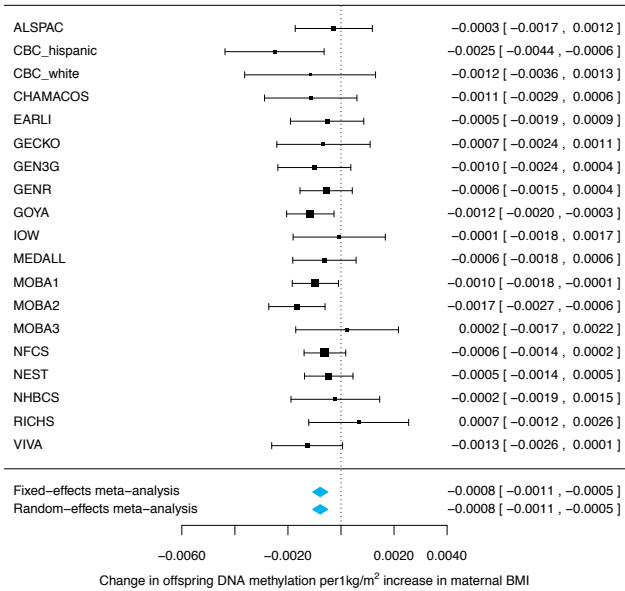
**Forest plot for probe:  
cg03221837 [IRX3]**



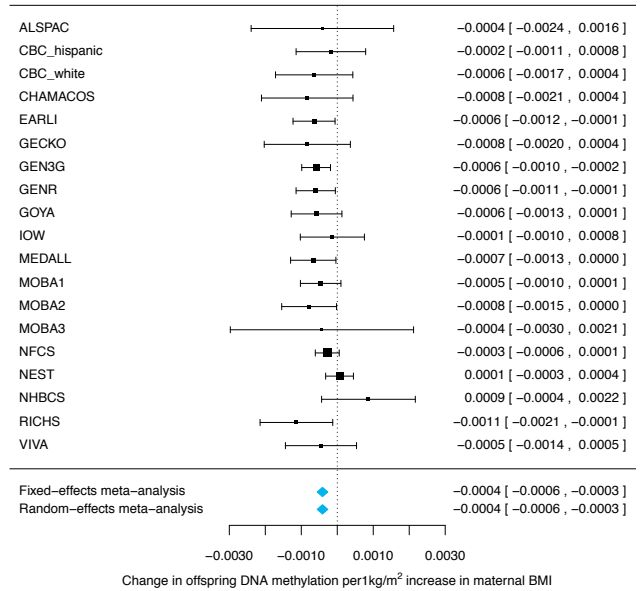
**Forest plot for probe:  
cg13557773 [RASA3]**



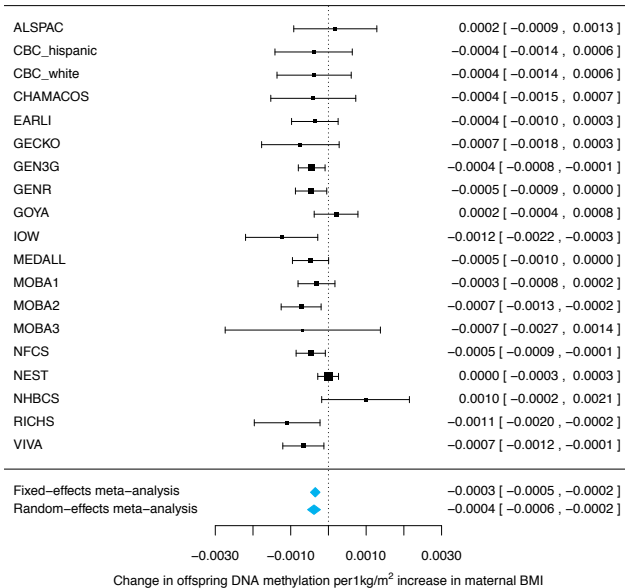
**Forest plot for probe:  
cg14434213 [RNF5P1]**



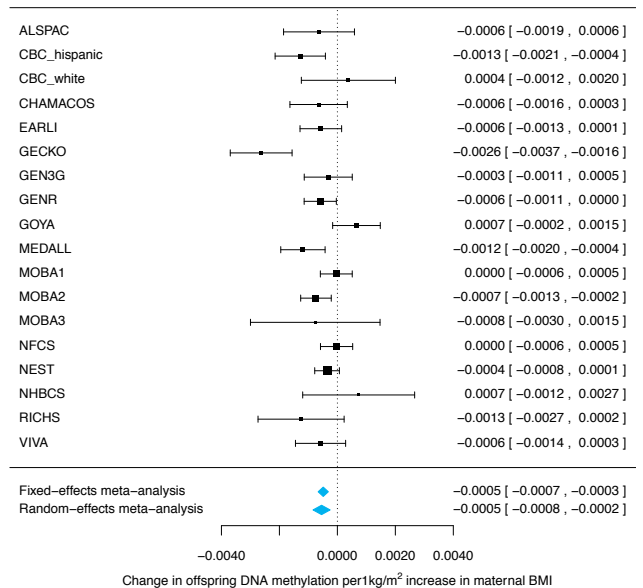
**Forest plot for probe:  
cg05659486 [AK056584]**



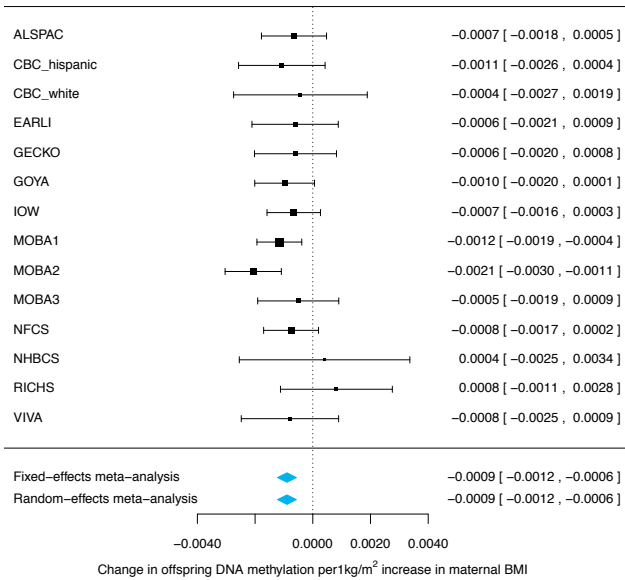
**Forest plot for probe:  
cg22545168 [LAIR1]**



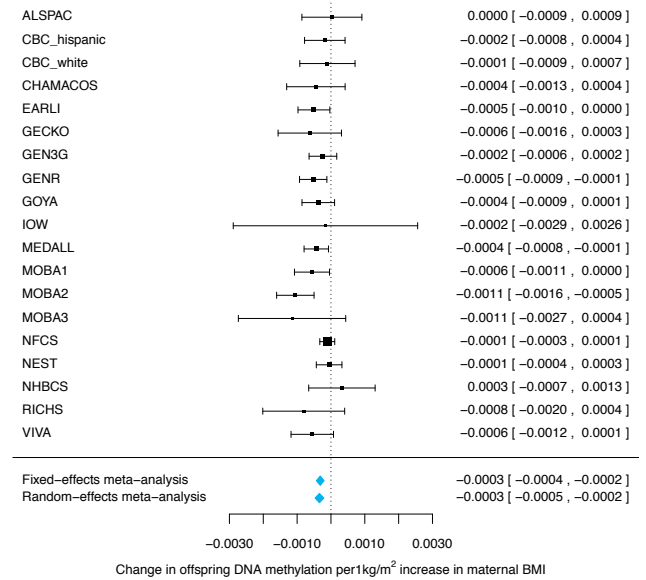
**Forest plot for probe:  
cg15029475 [C5orf38]**



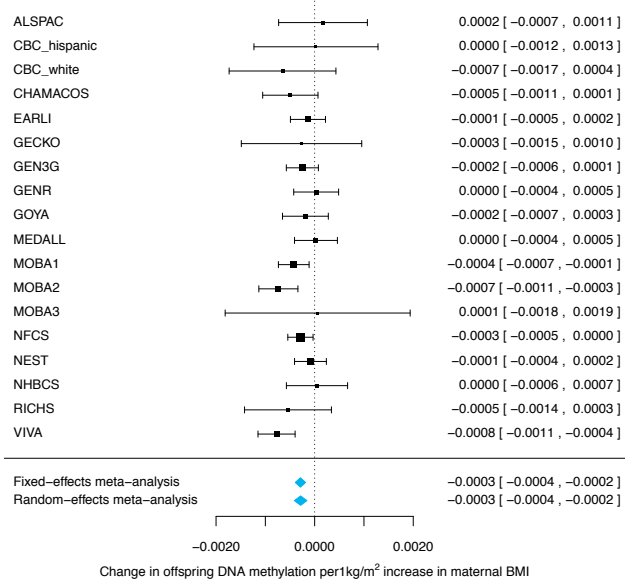
**Forest plot for probe:  
cg23749005 [PTPRN2]**



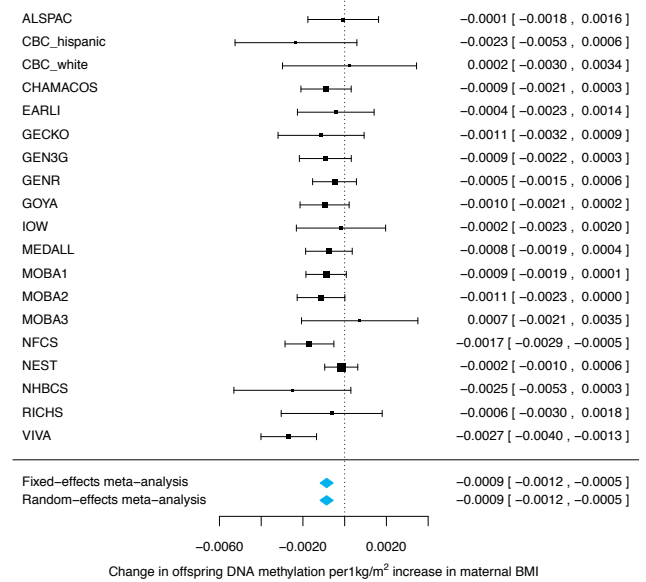
**Forest plot for probe:  
cg23111106 [AK126213]**



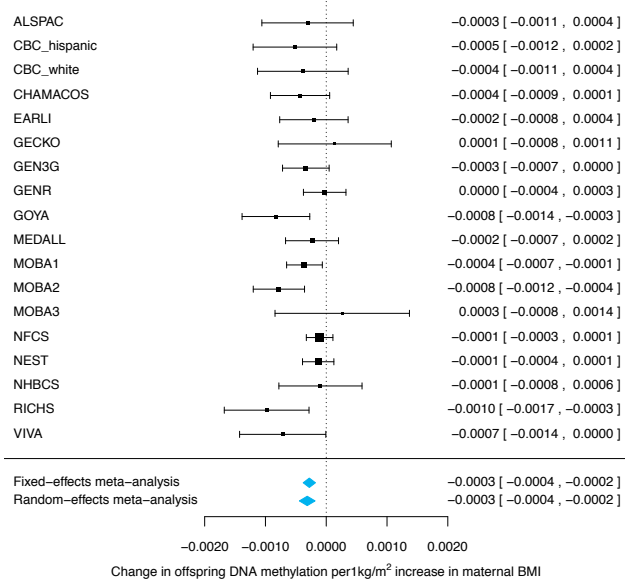
**Forest plot for probe:  
cg21937867 [PRCD]**



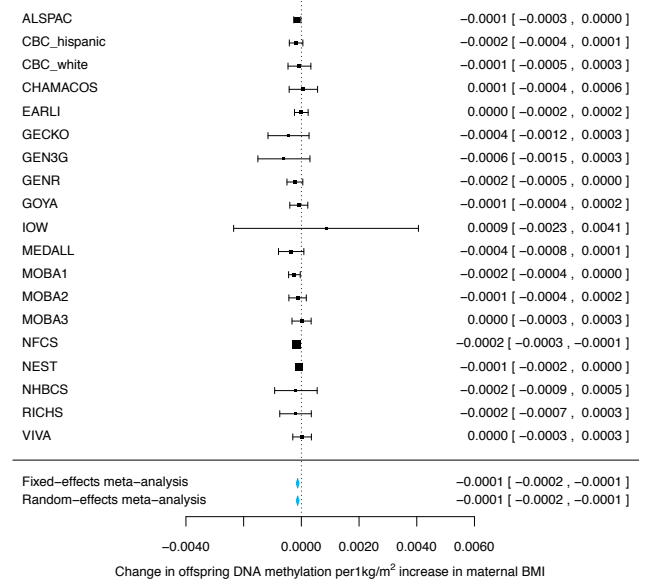
**Forest plot for probe:  
cg04972348 [MIR200B]**

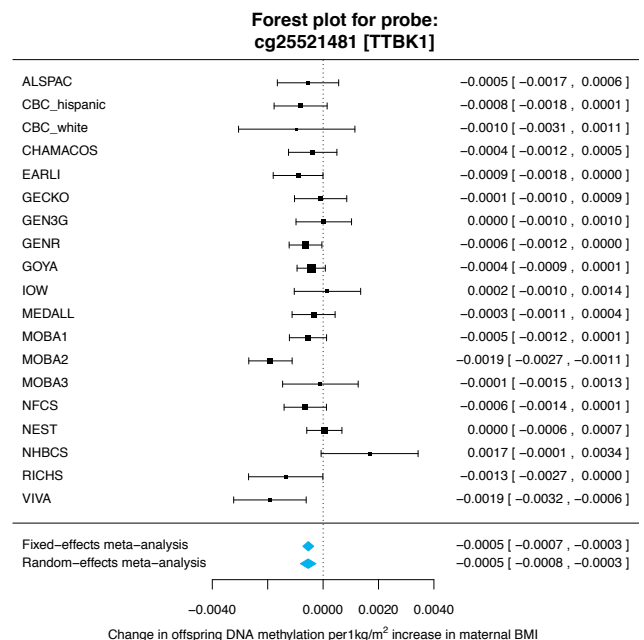
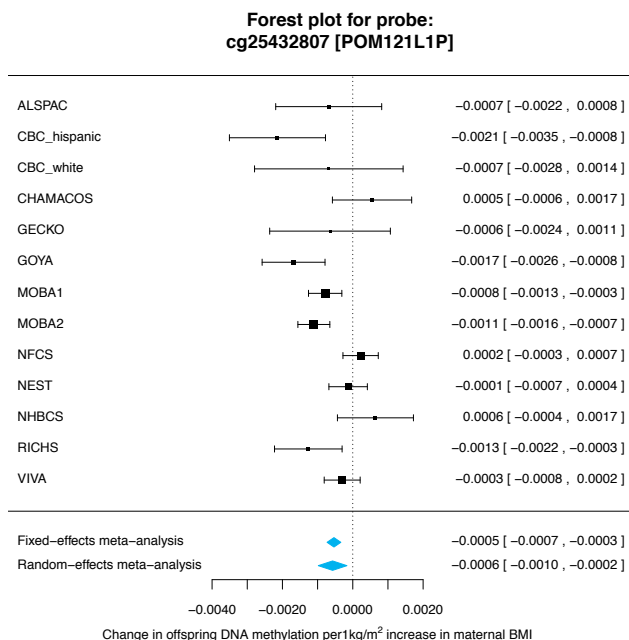
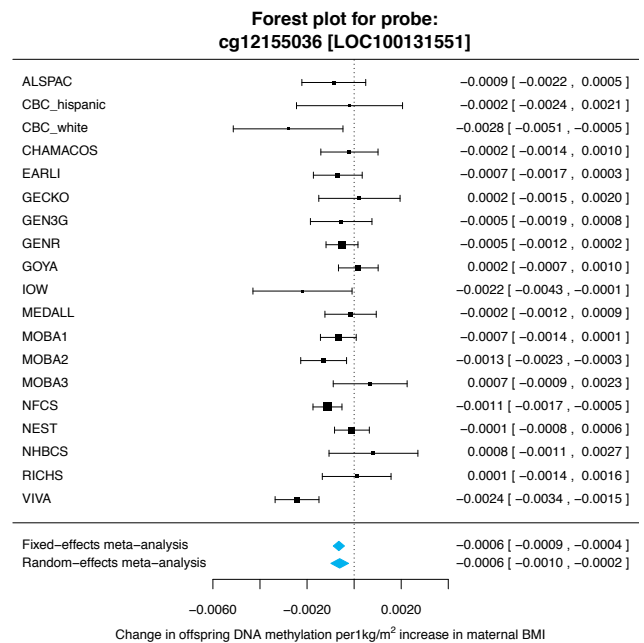
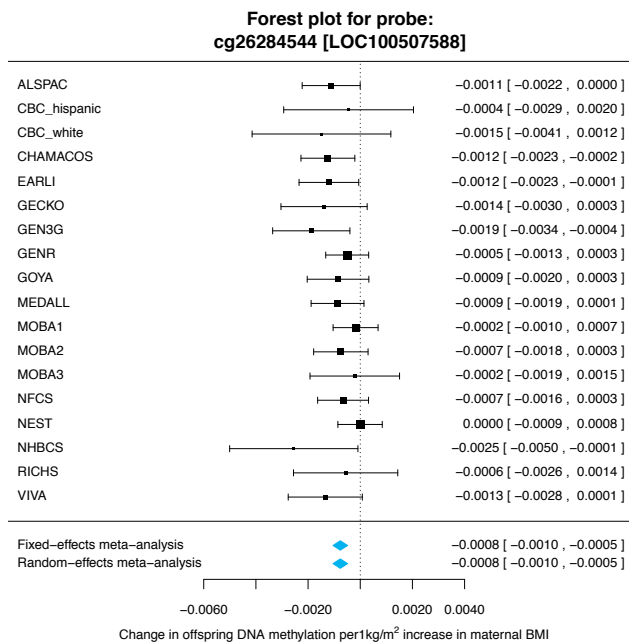
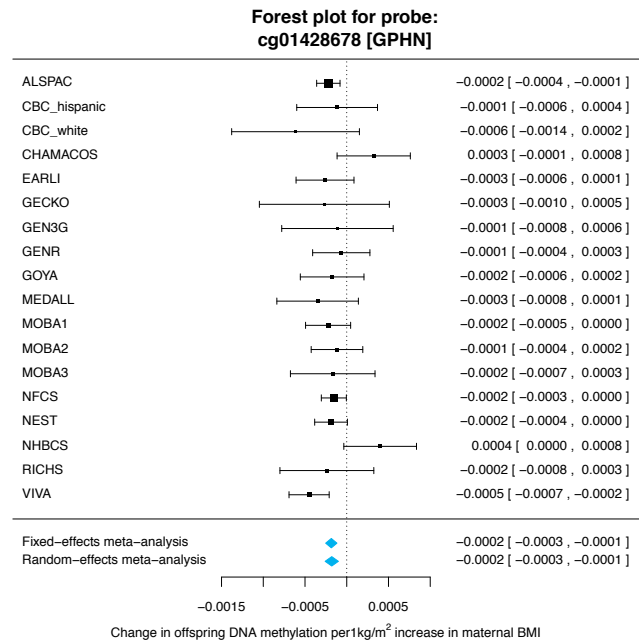
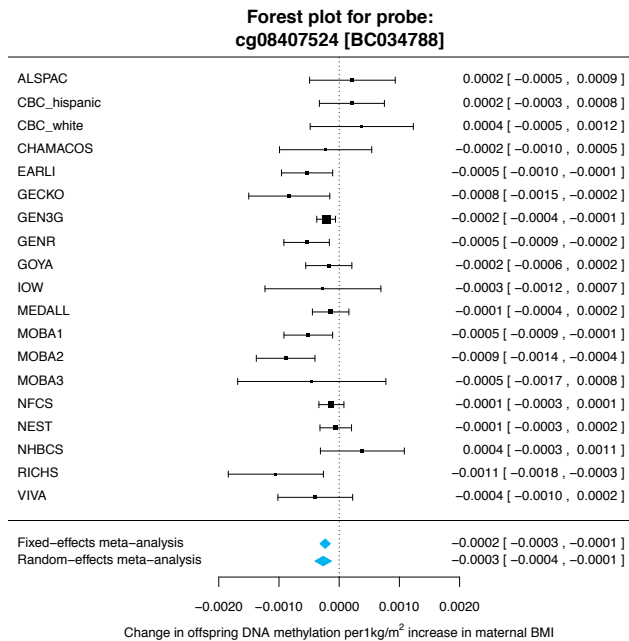


**Forest plot for probe:  
cg05881436 [SNAPC1]**

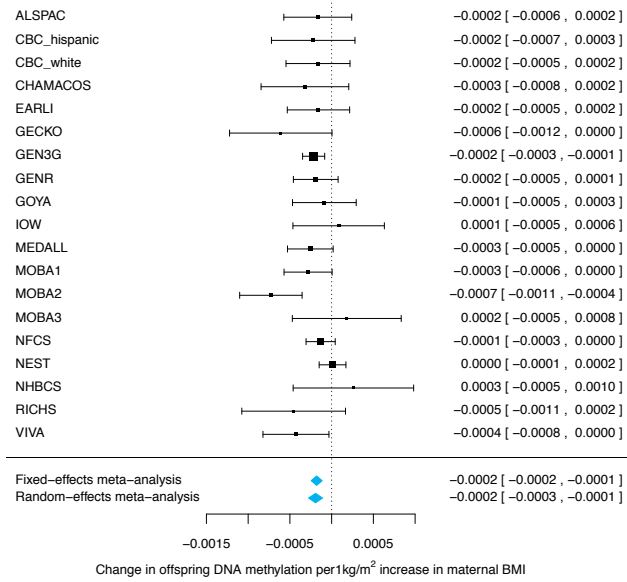


**Forest plot for probe:  
cg23166970 [MCCC1]**

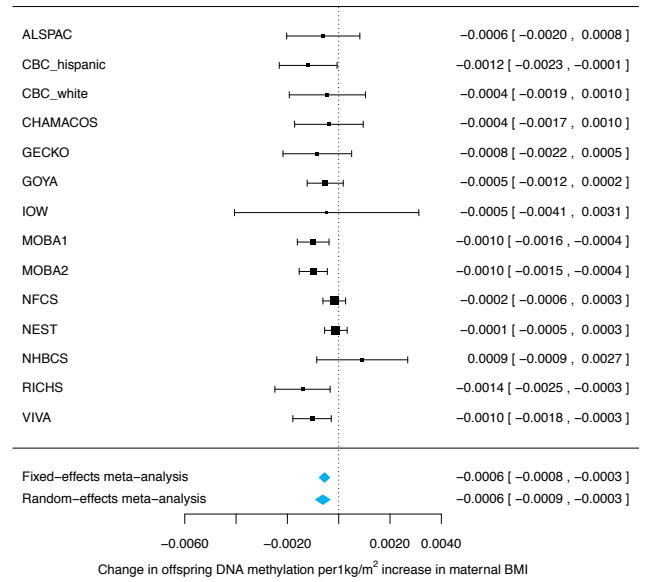




Forest plot for probe:  
cg25185429 [EGOT]

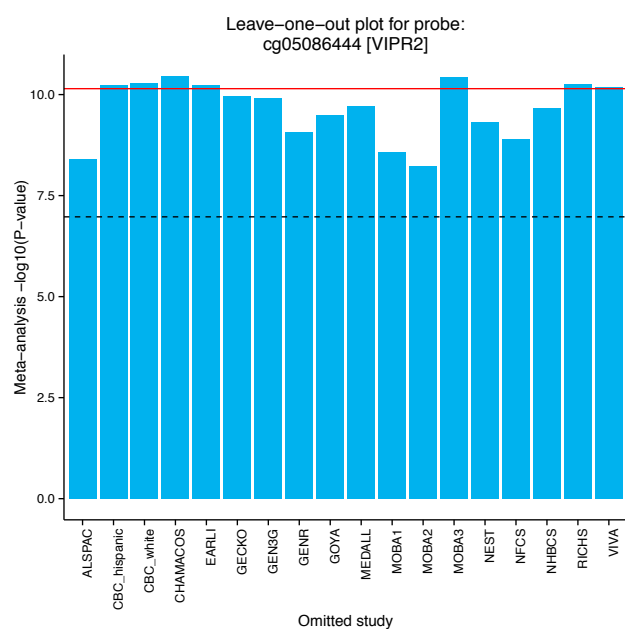
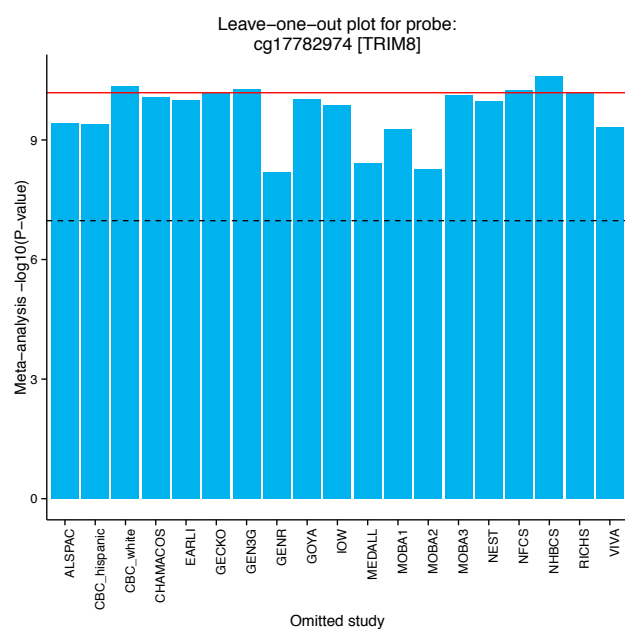
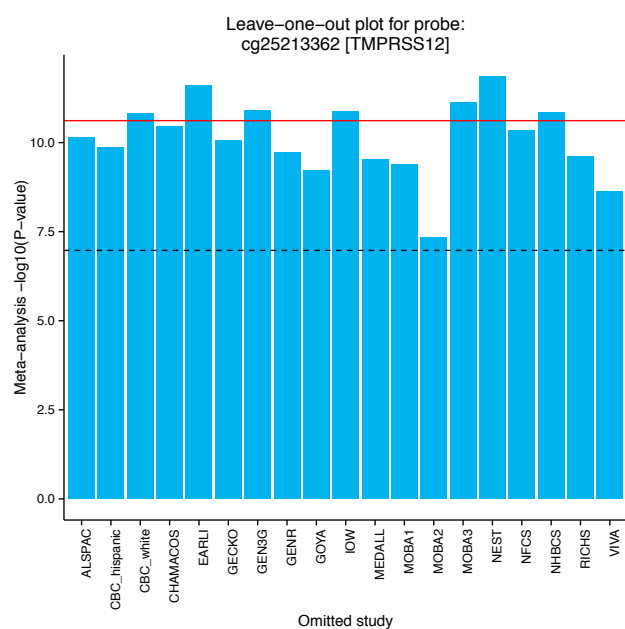
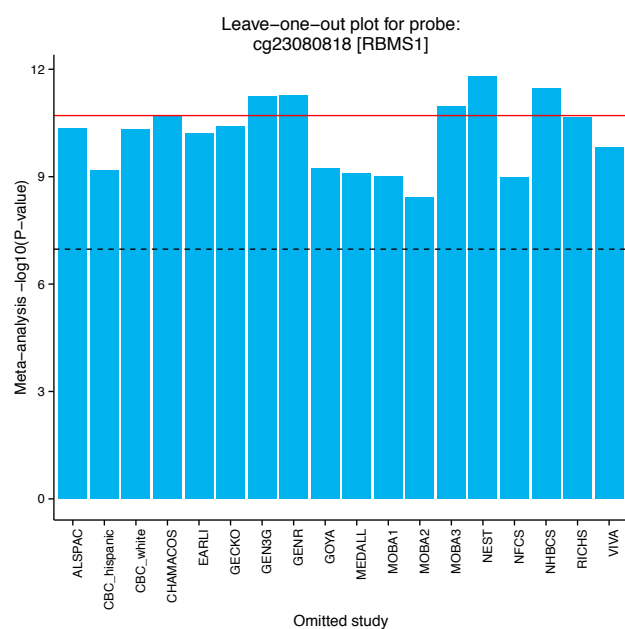
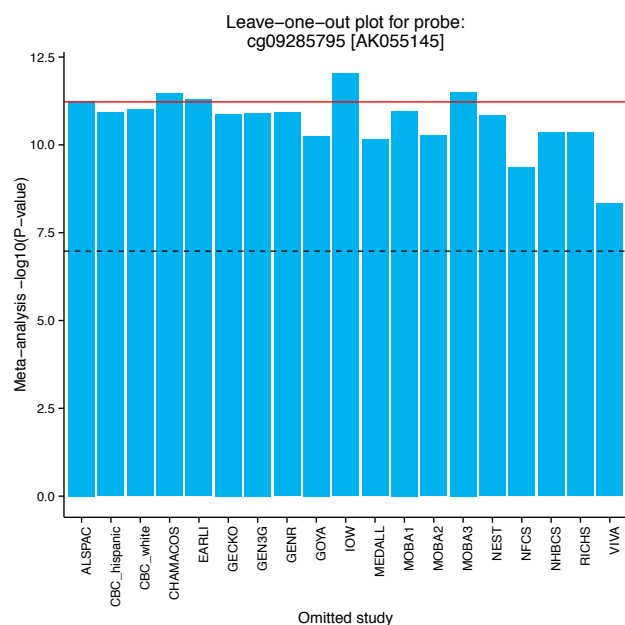
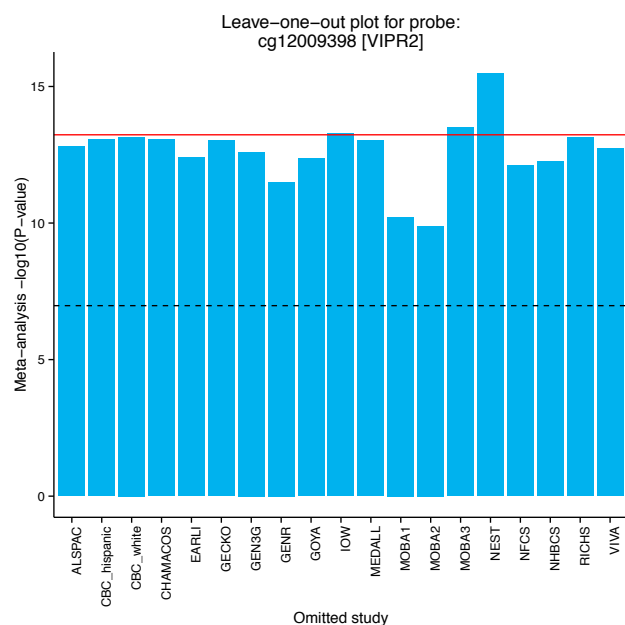


Forest plot for probe:  
cg01517690 [ZSWIM2]

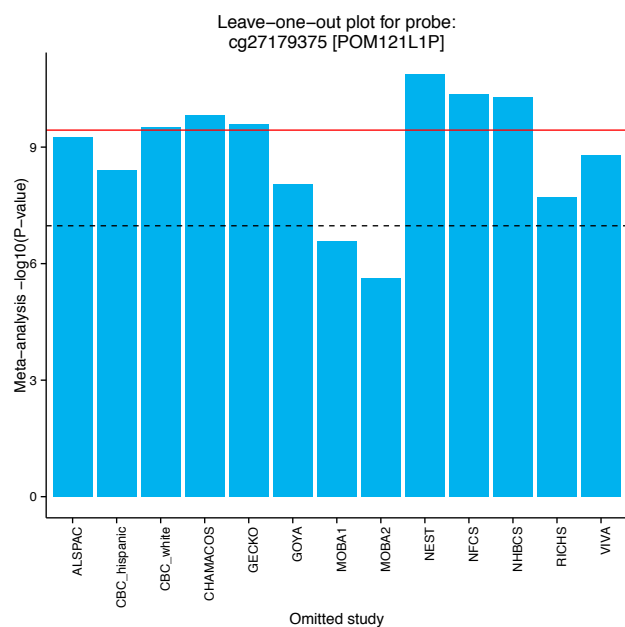
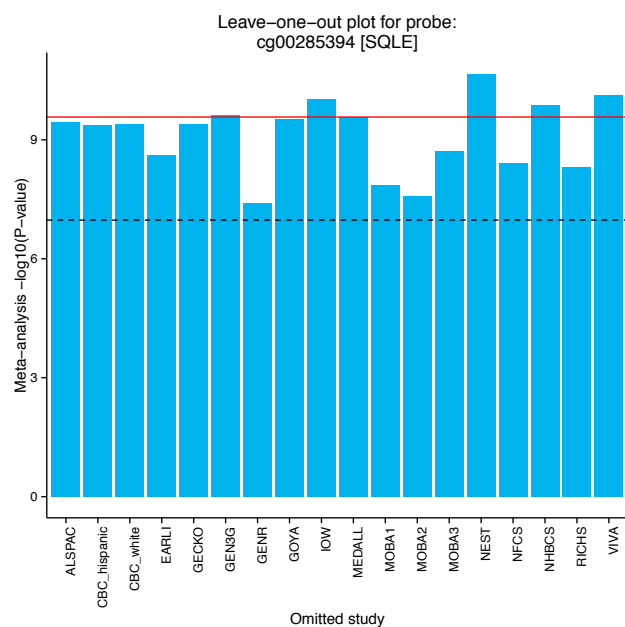
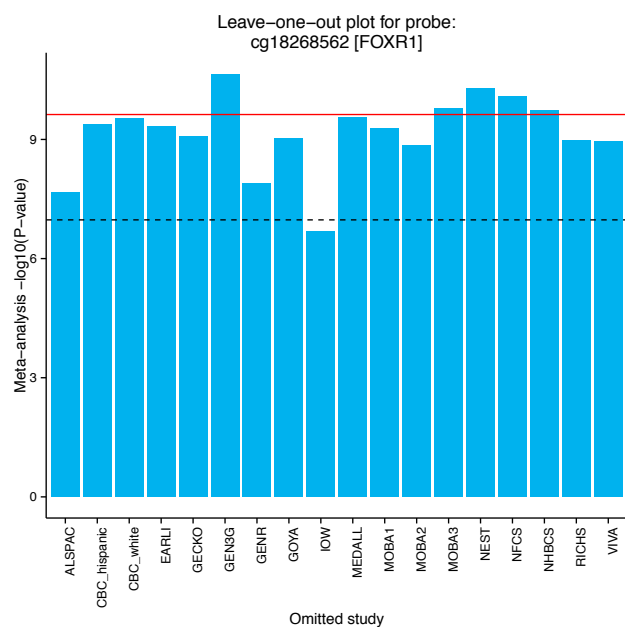
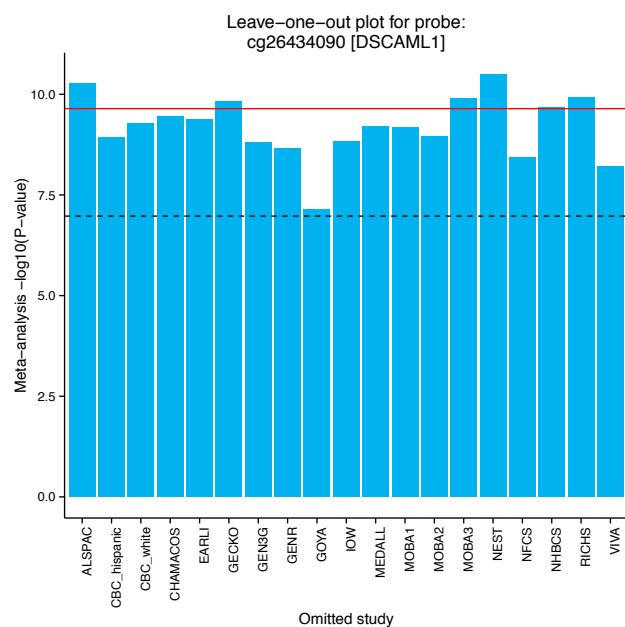
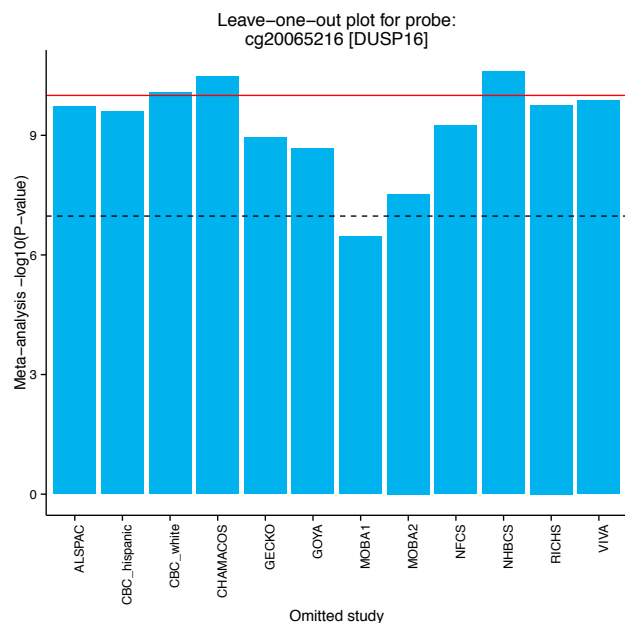
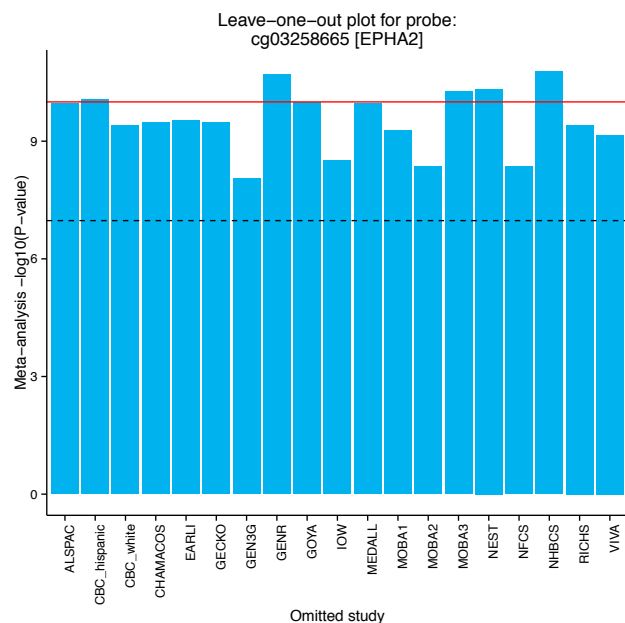


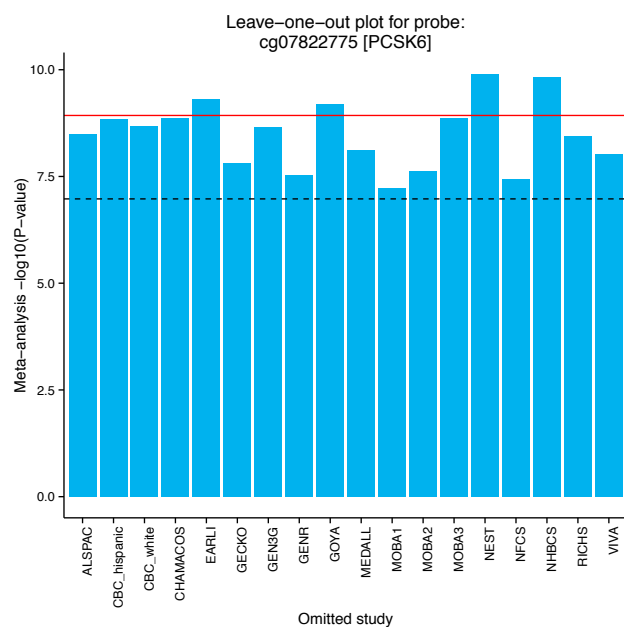
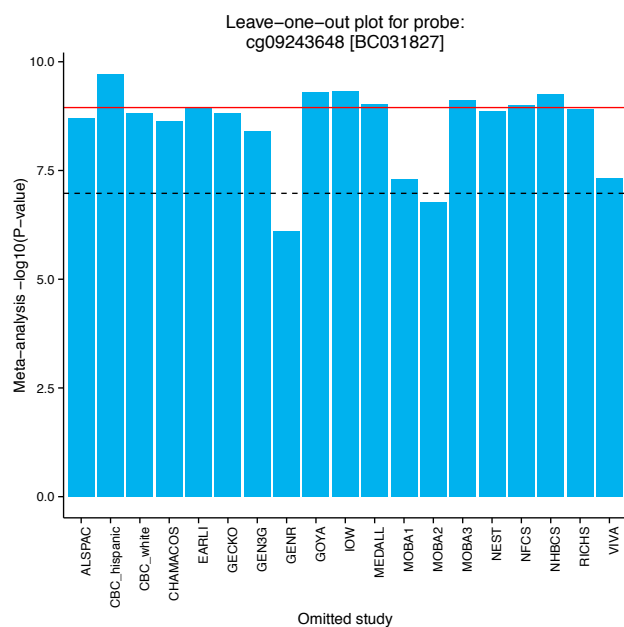
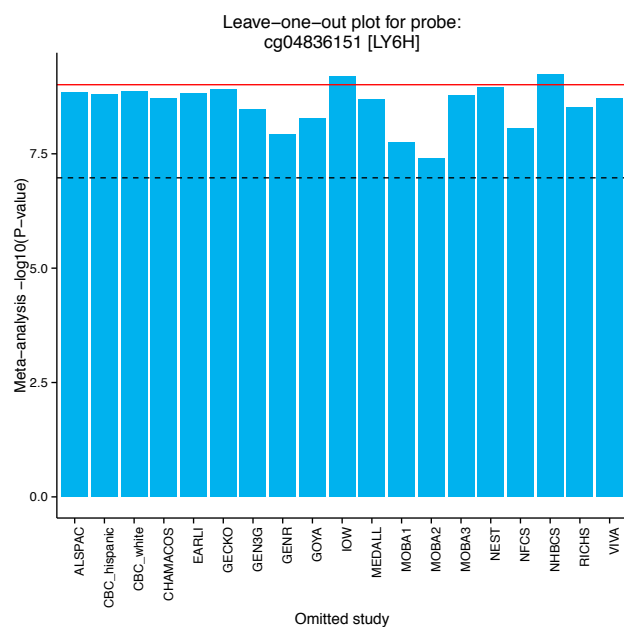
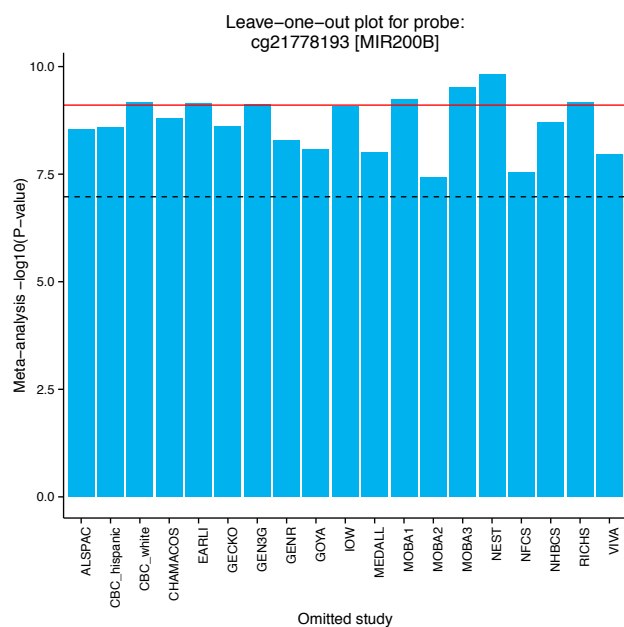
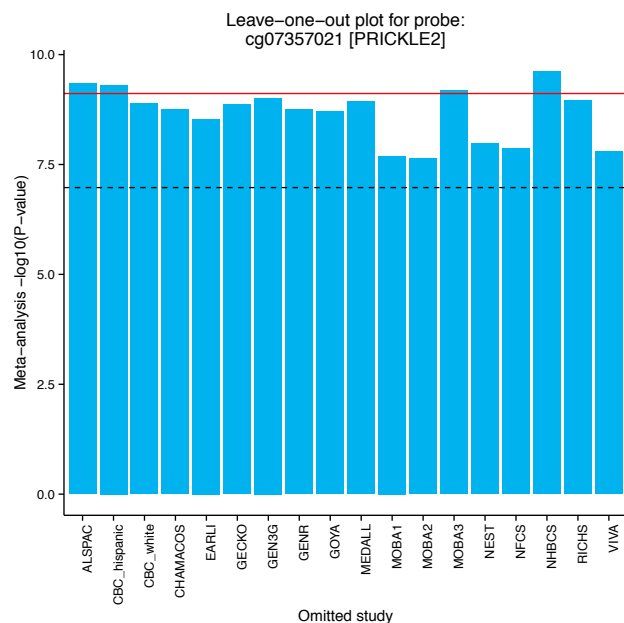
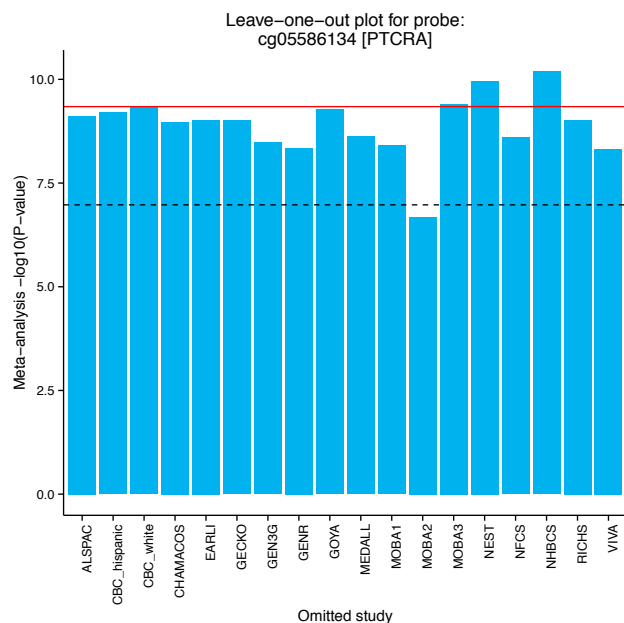
## Leave-one-out plots for the cell-adjusted continuous BMI model

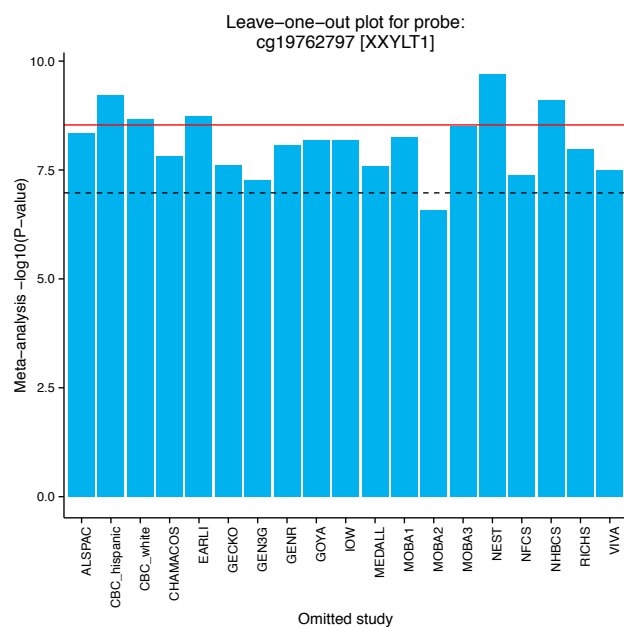
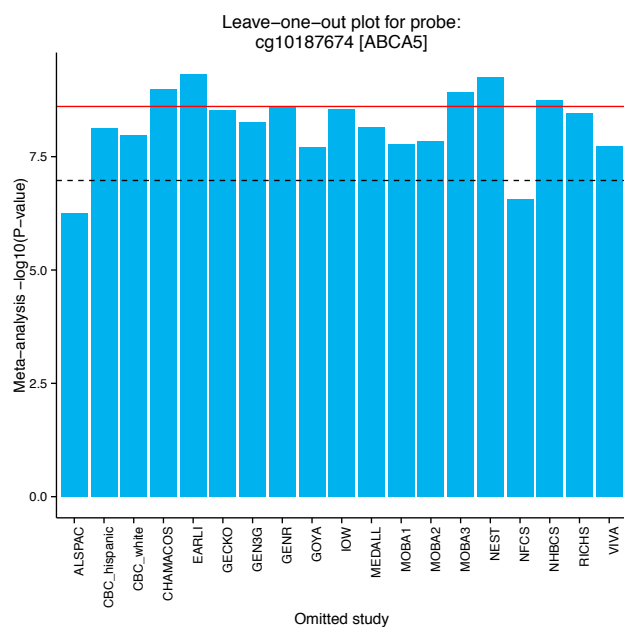
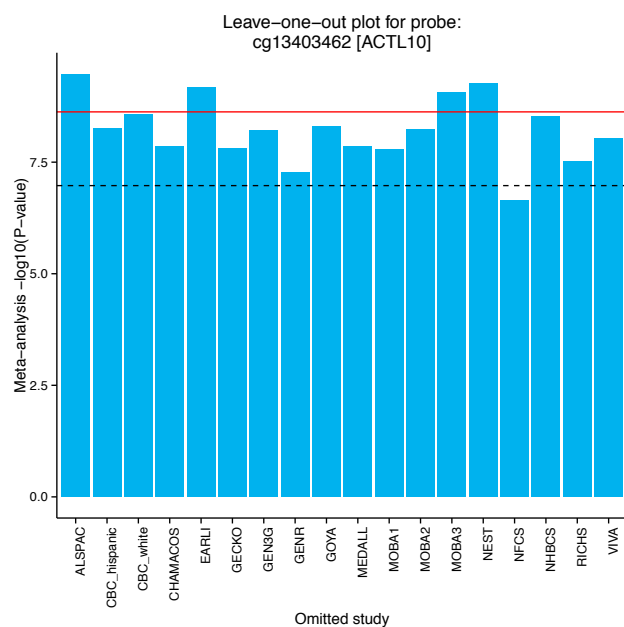
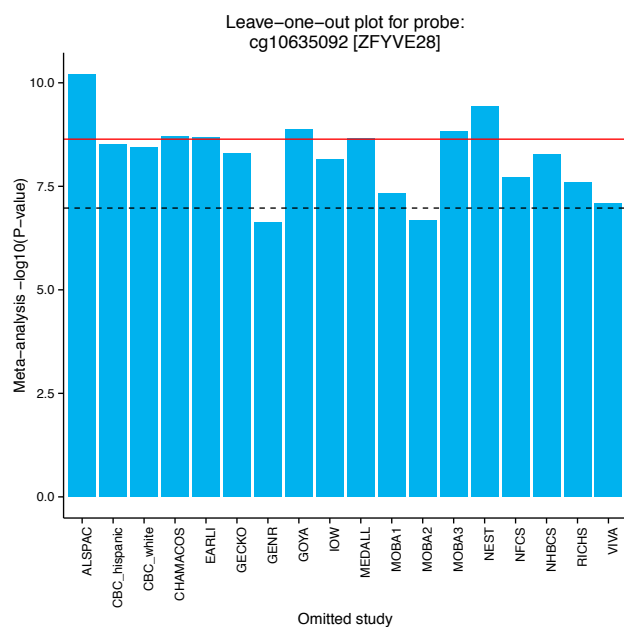
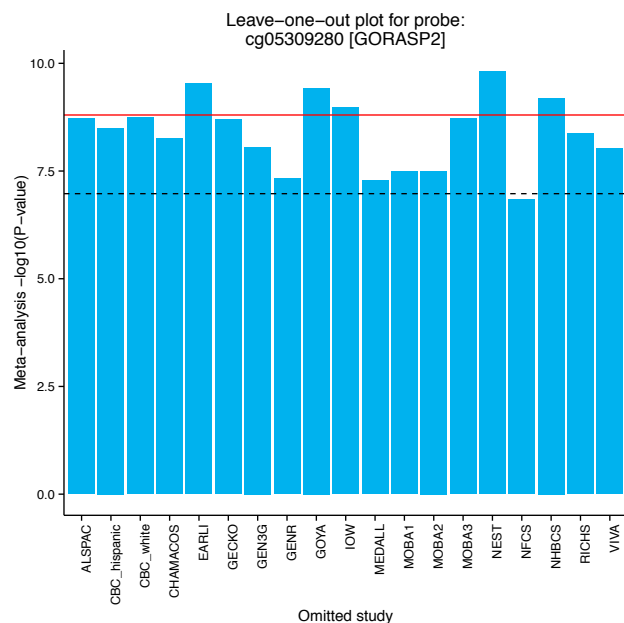
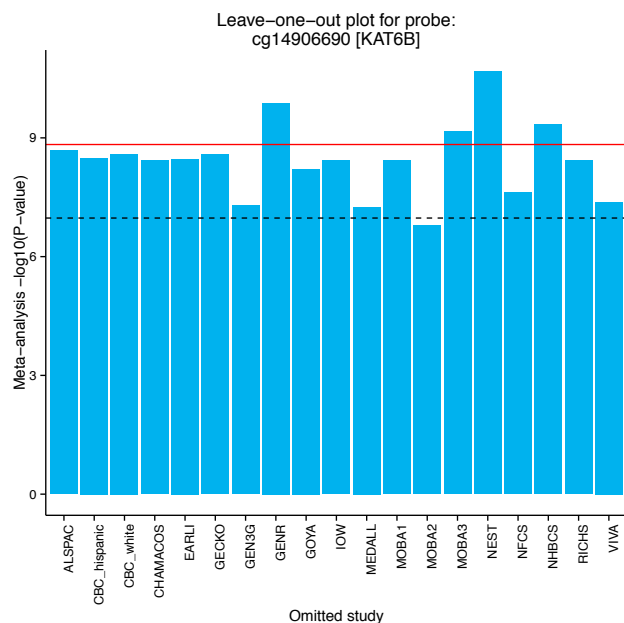
Plots show  $-\log_{10}$  P-values for meta-analyses with each cohort (x-axis) omitted. The red, full horizontal line indicates the  $-\log_{10}$  P-value for the meta-analysis with all cohorts included. The black, dashed horizontal line indicates the Bonferroni cut off for genome-wide significance ( $1.06 \times 10^{-7}$ ).

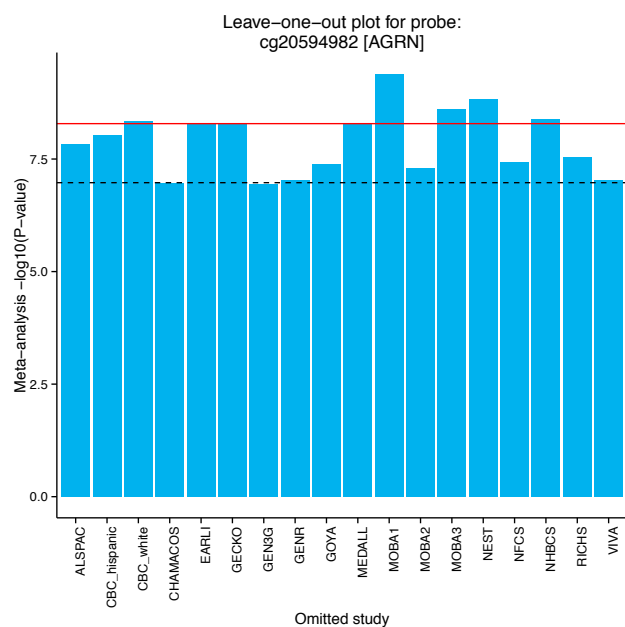
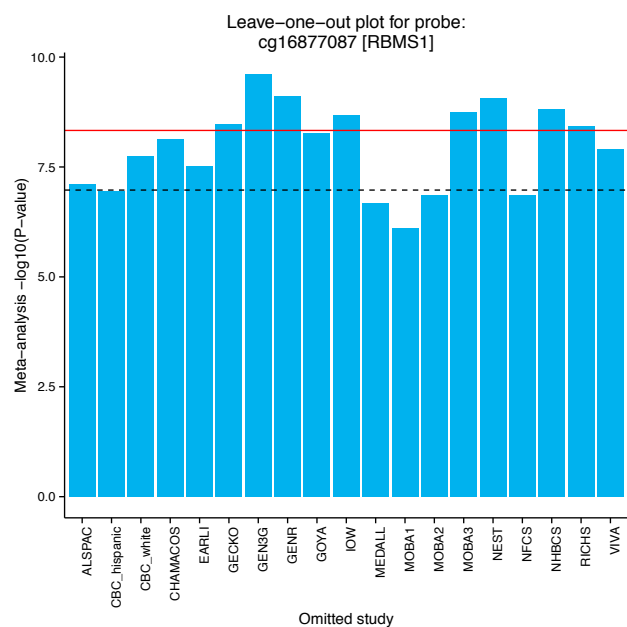
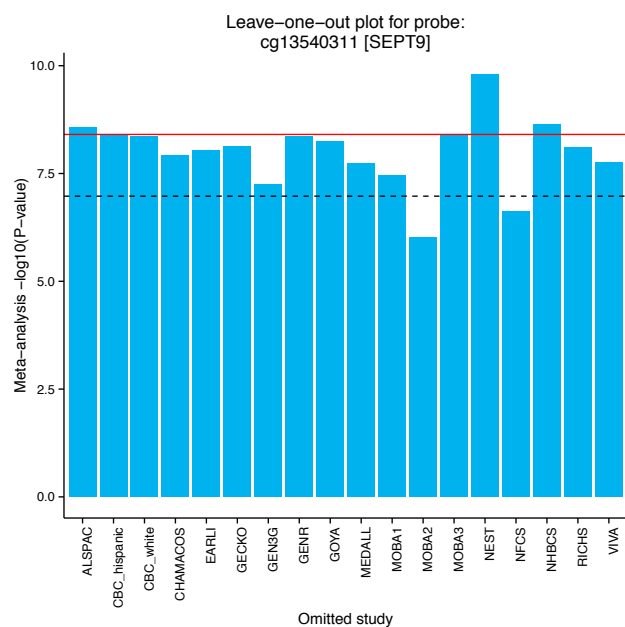
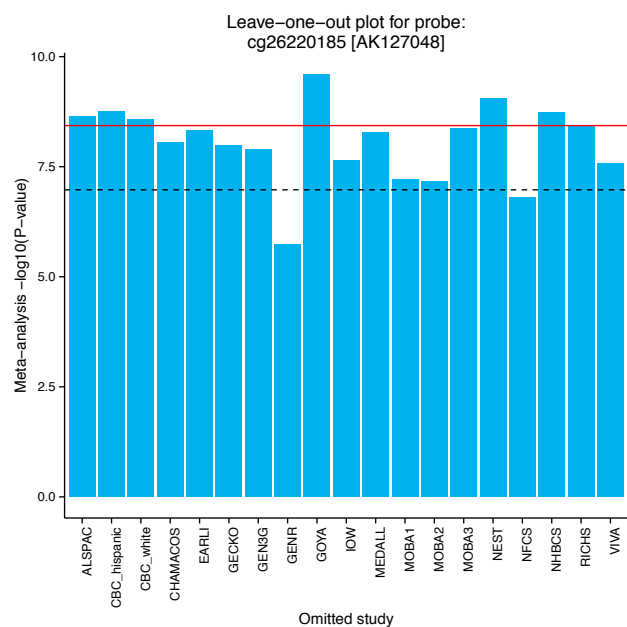
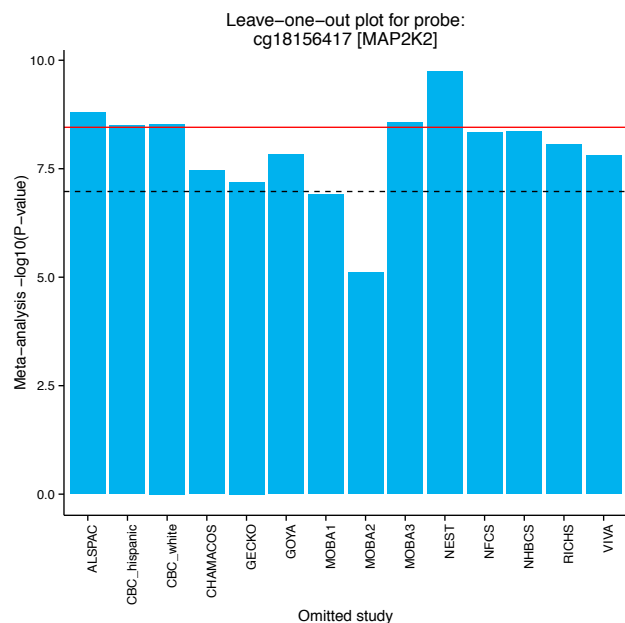
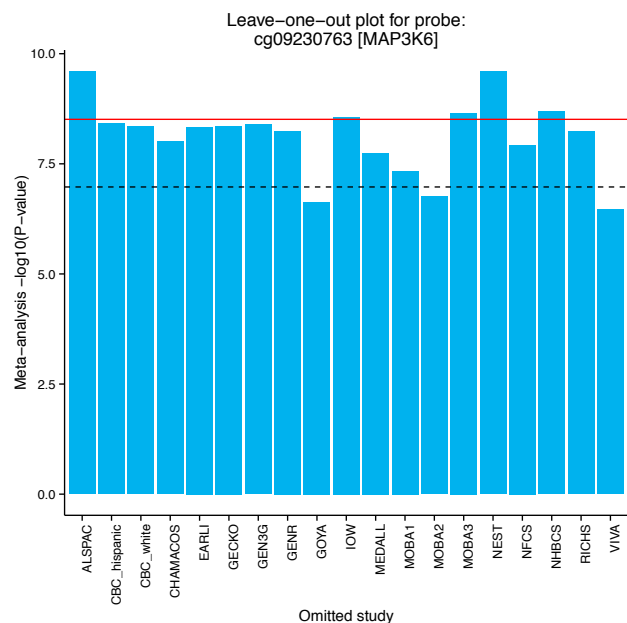


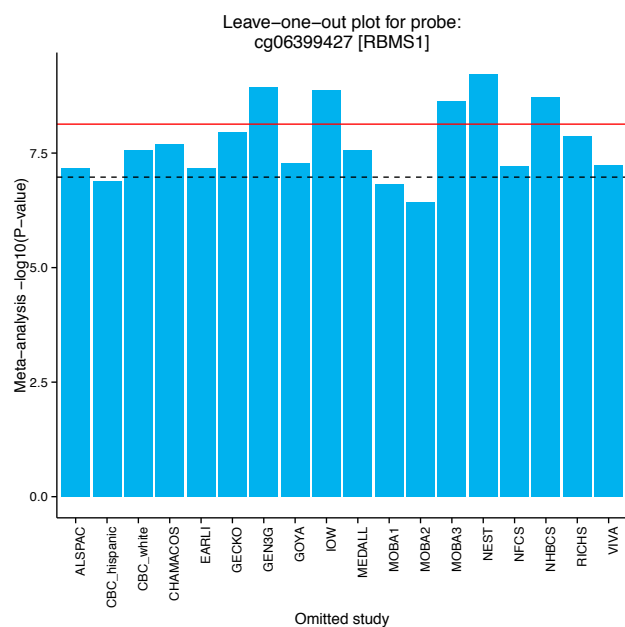
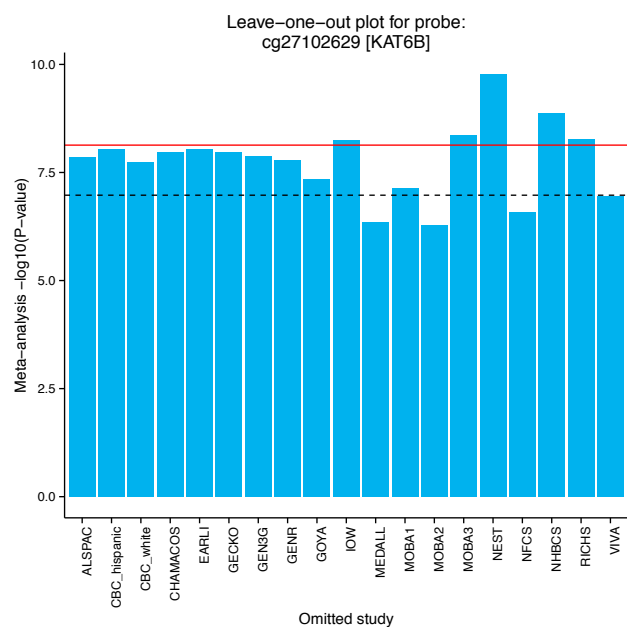
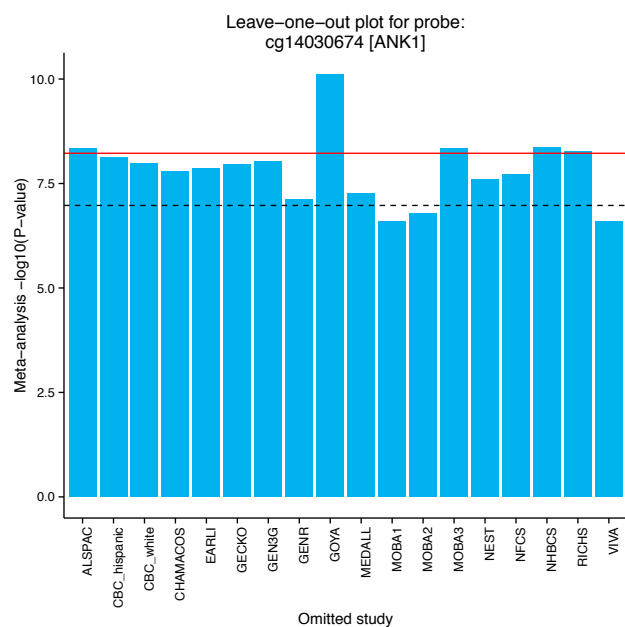
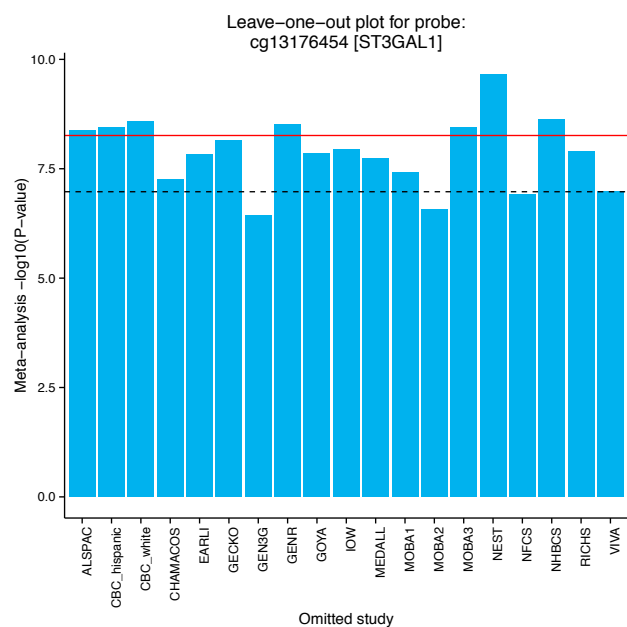
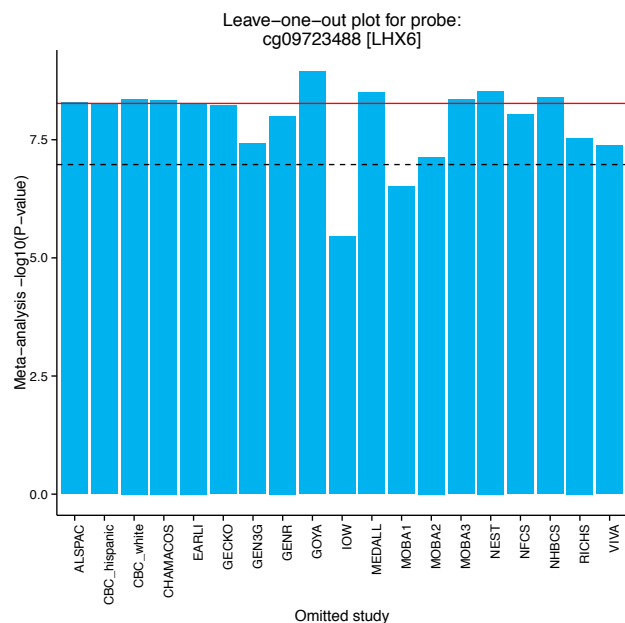
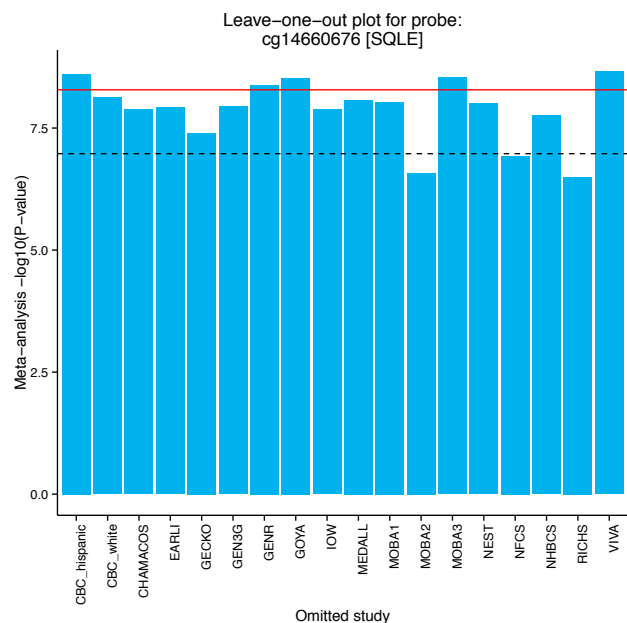


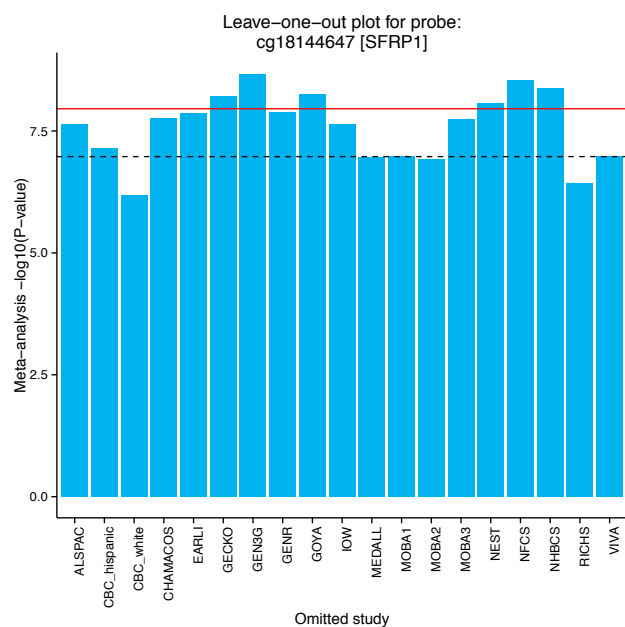
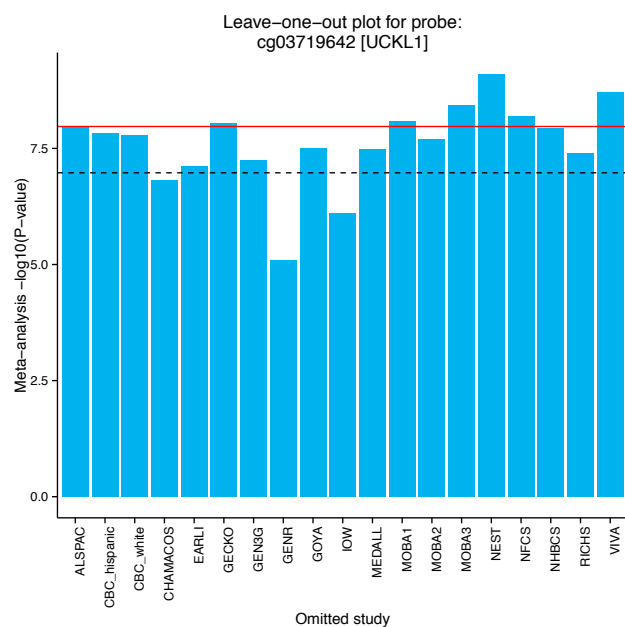
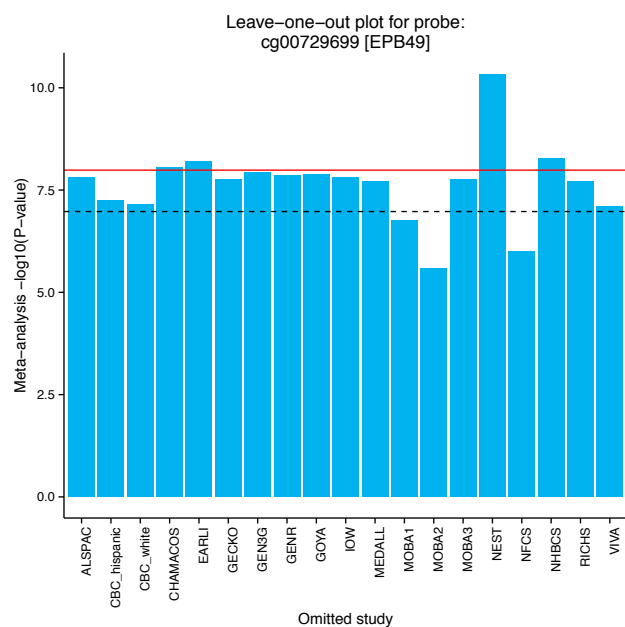
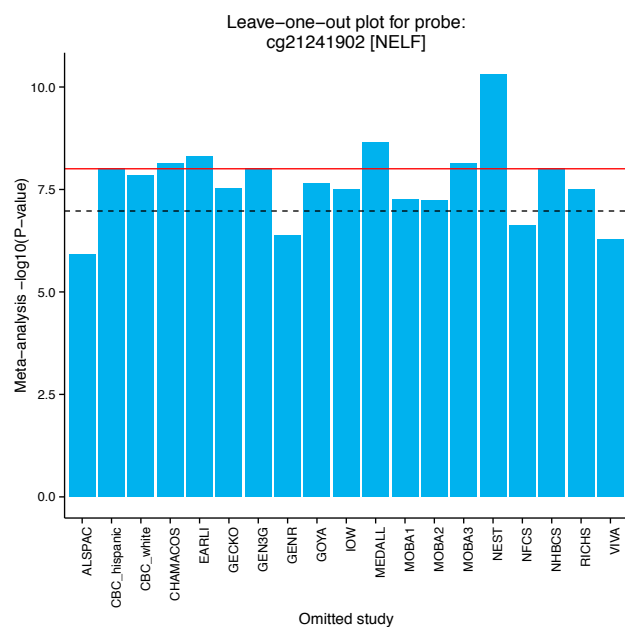
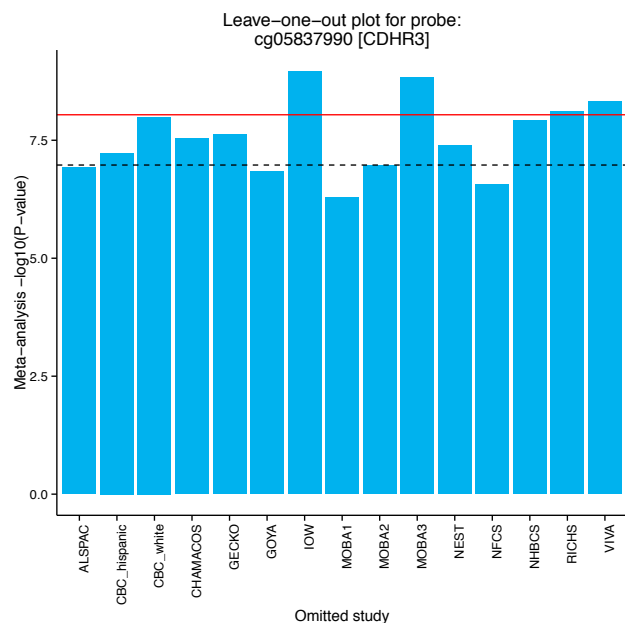
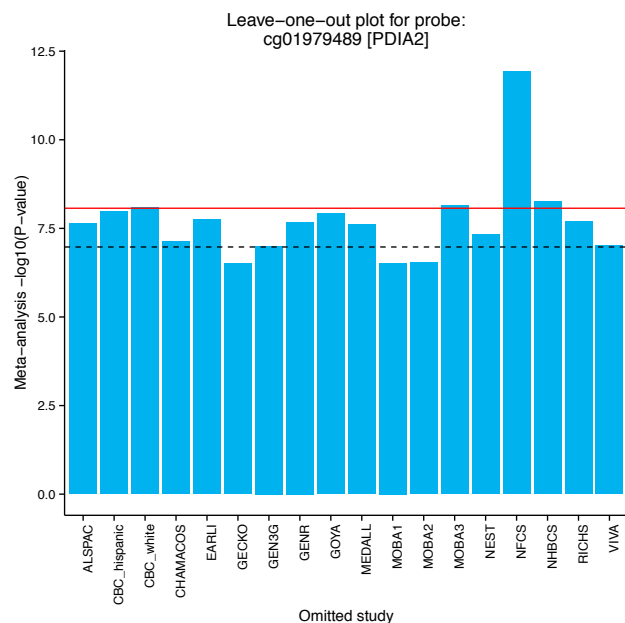


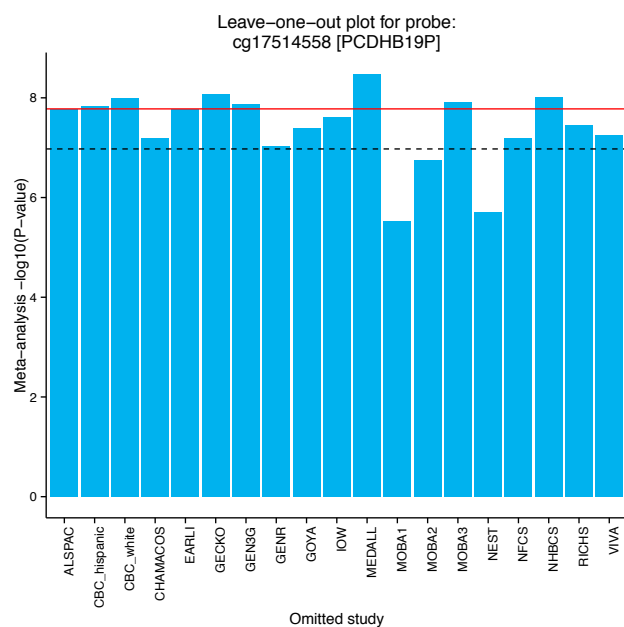
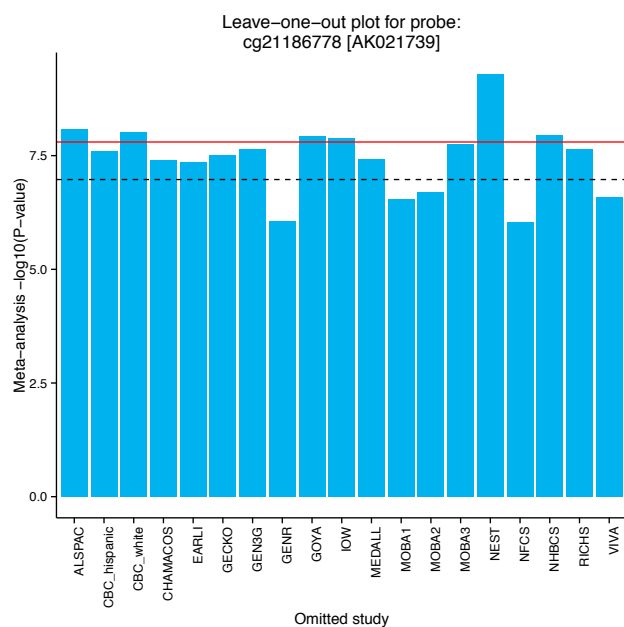
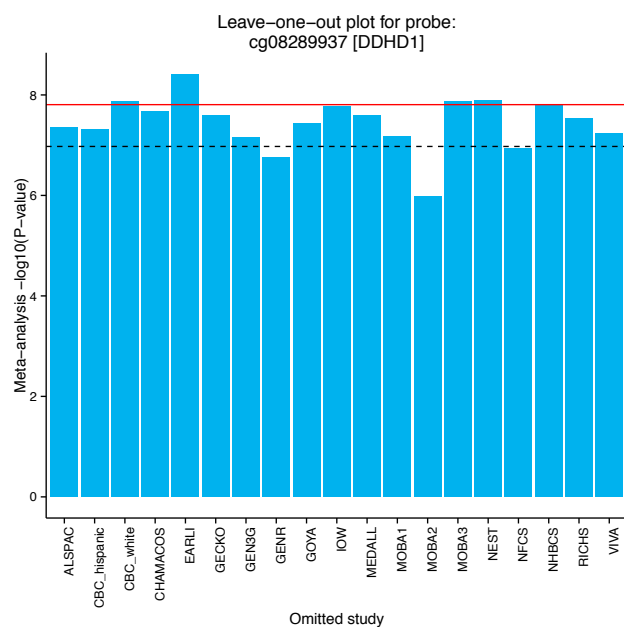
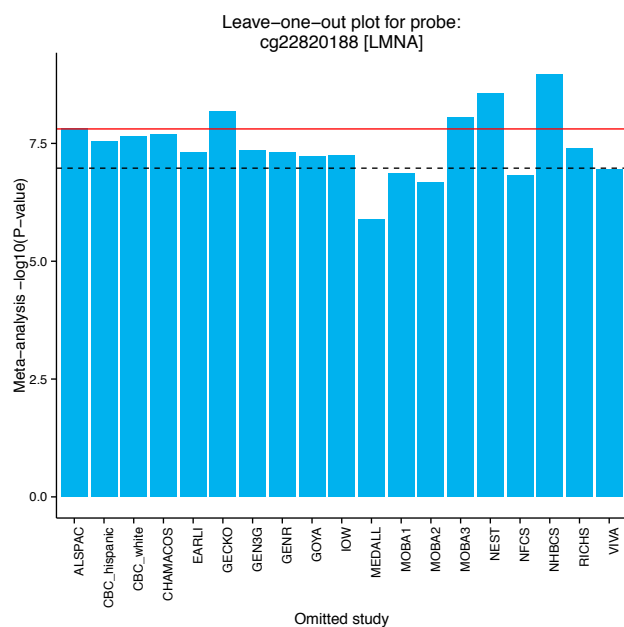
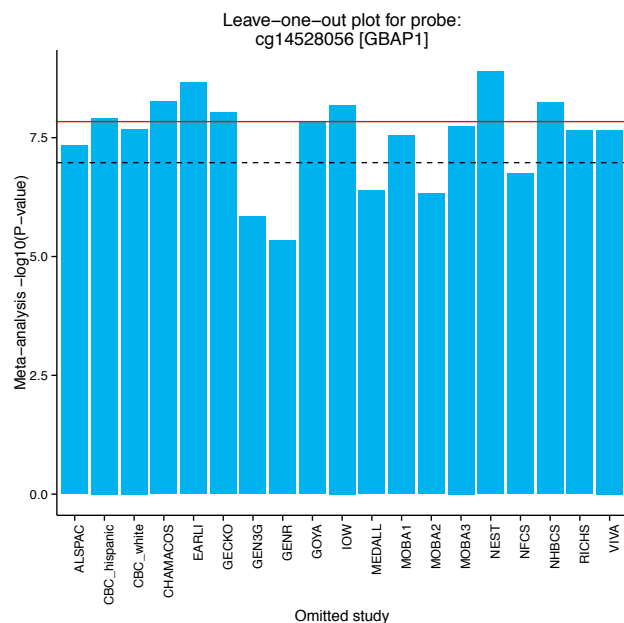
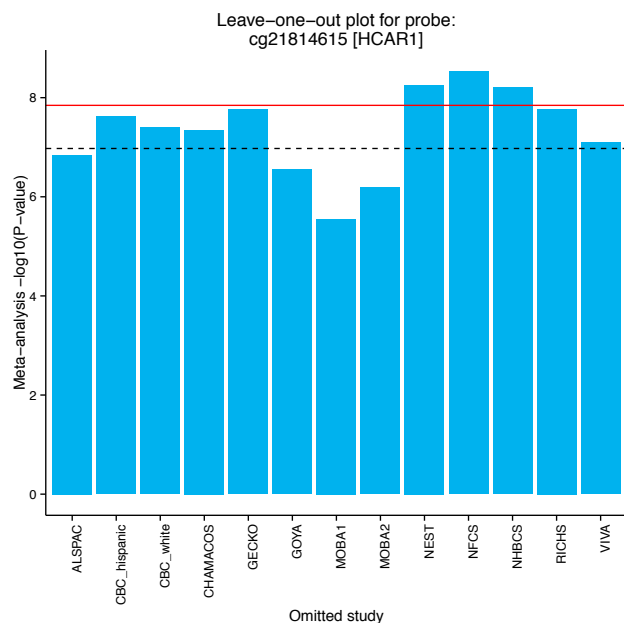


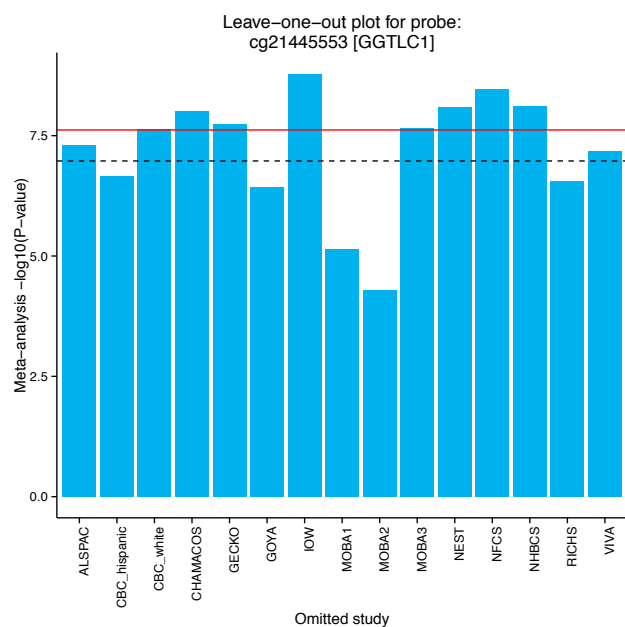
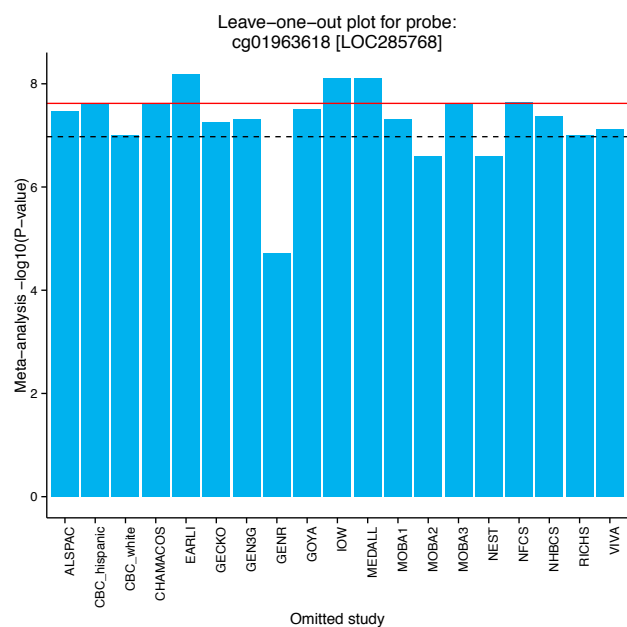
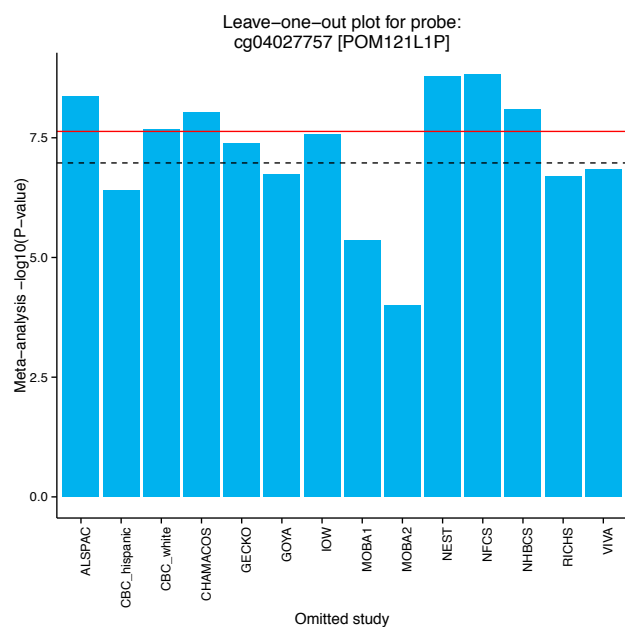
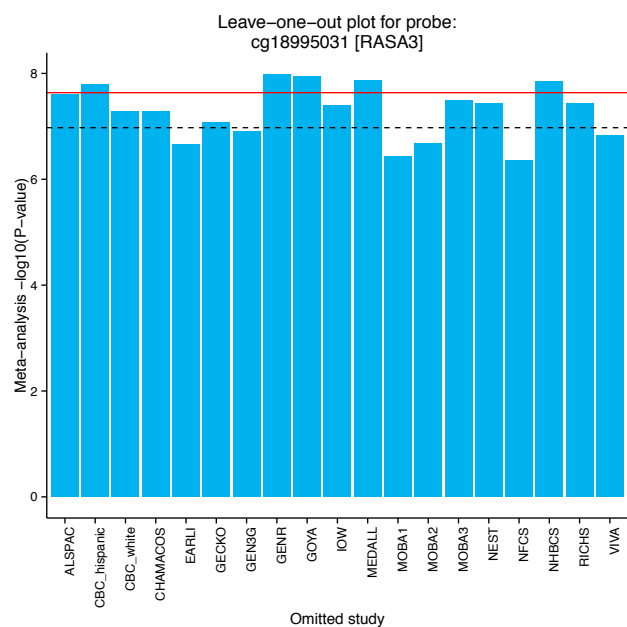
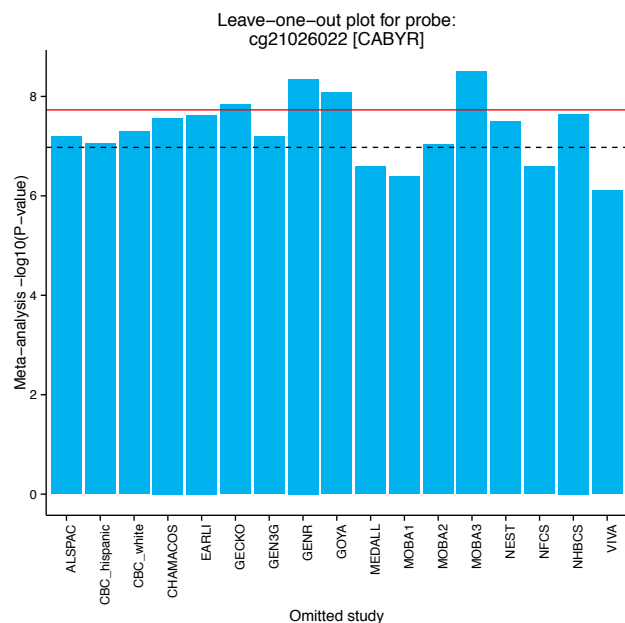
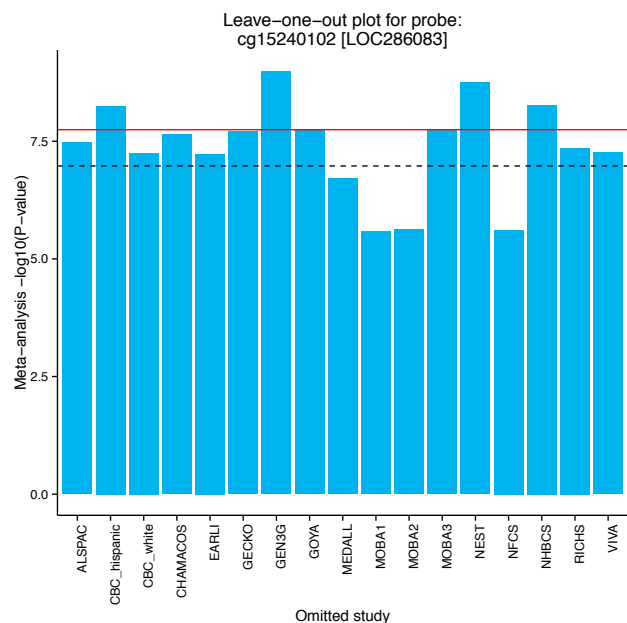




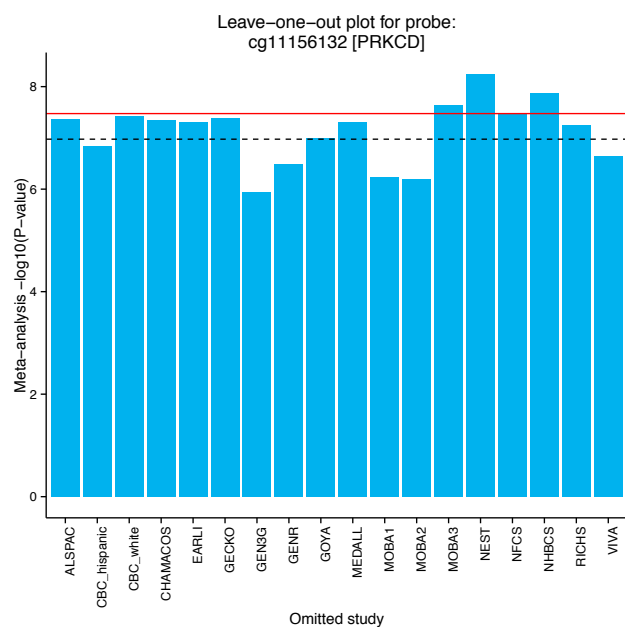
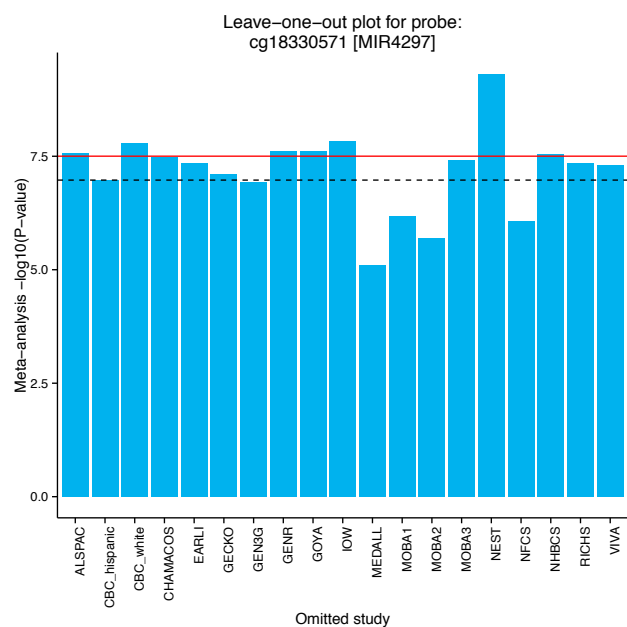
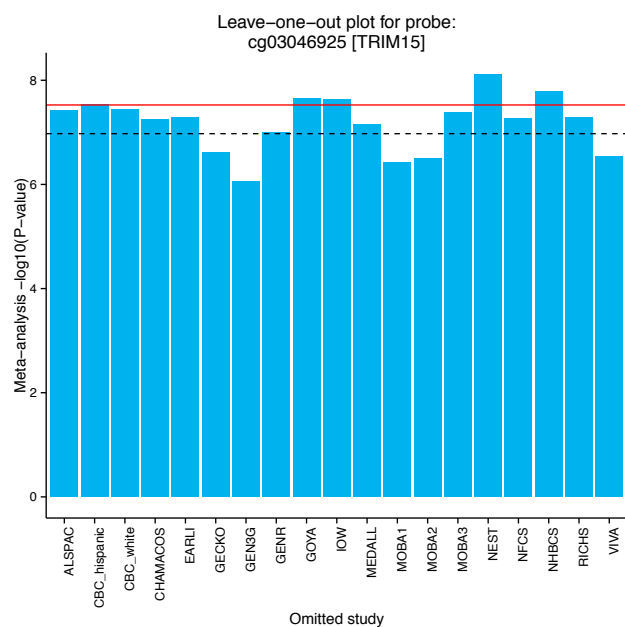
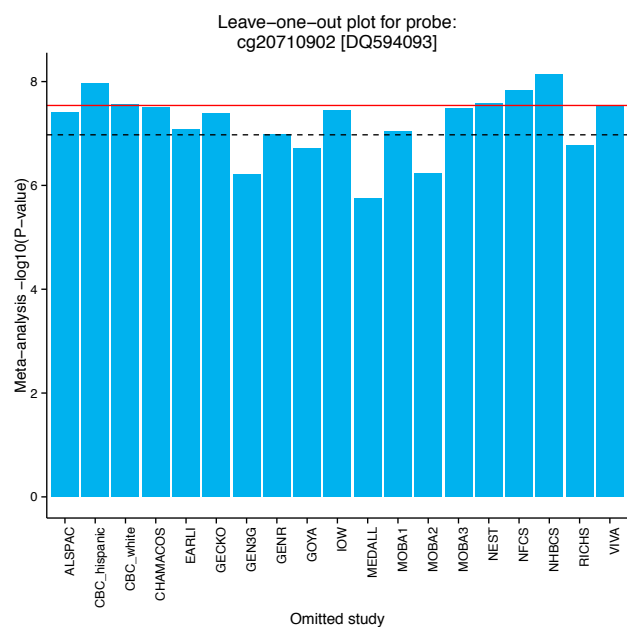
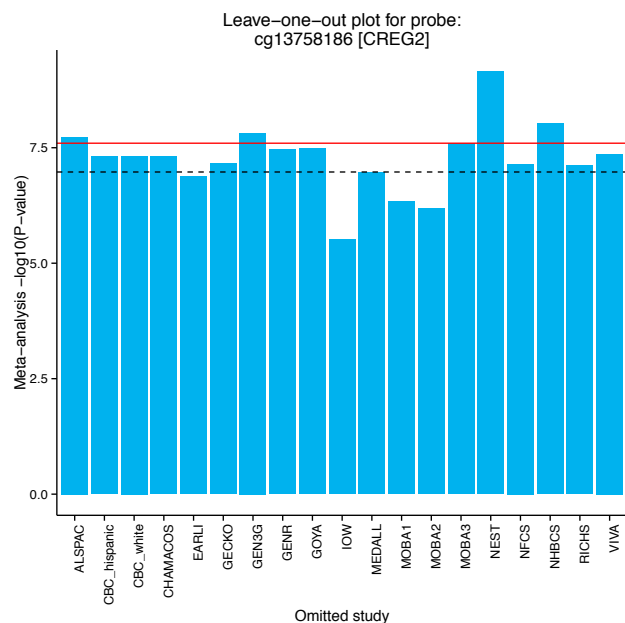
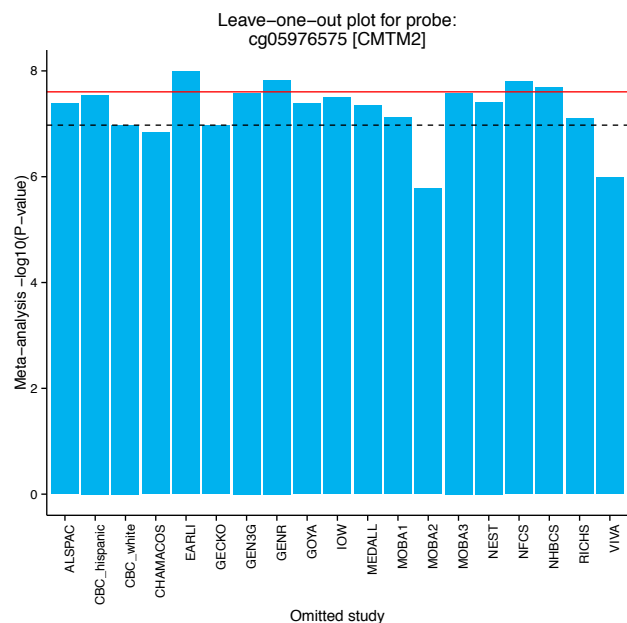


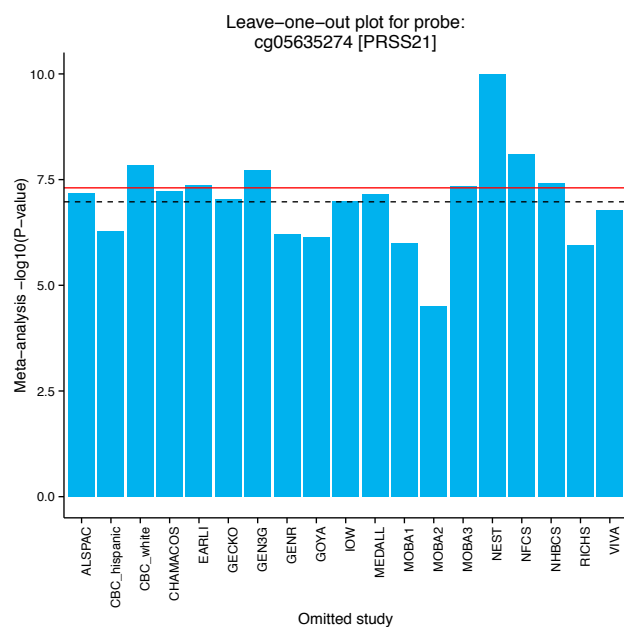
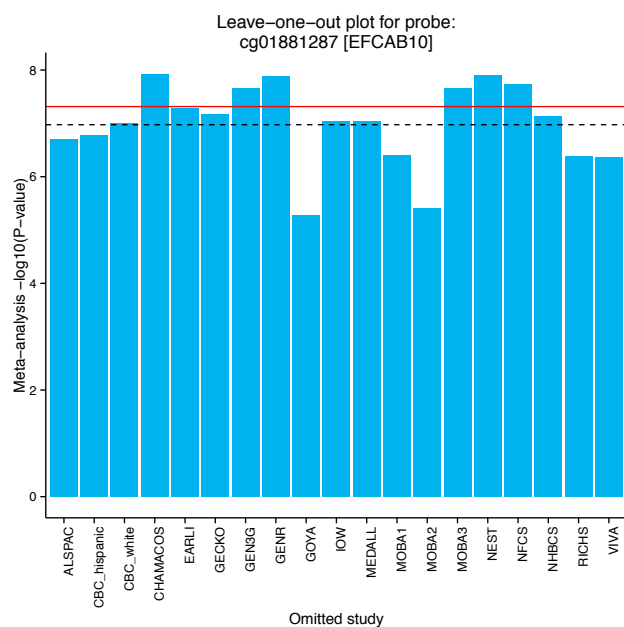
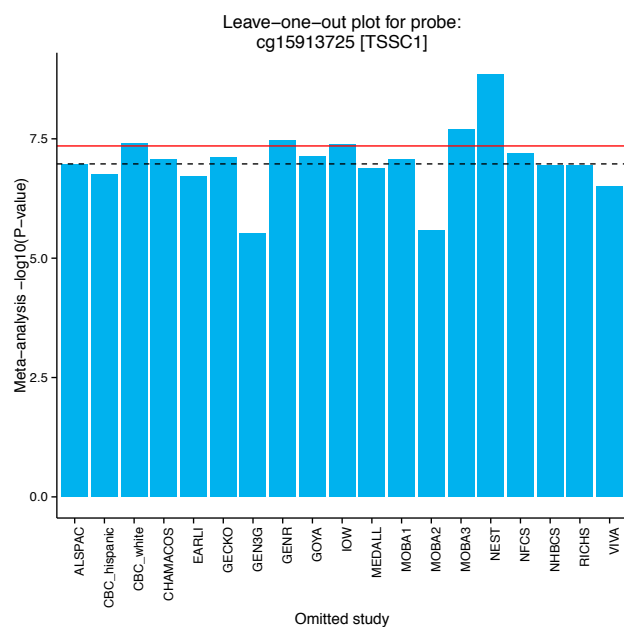
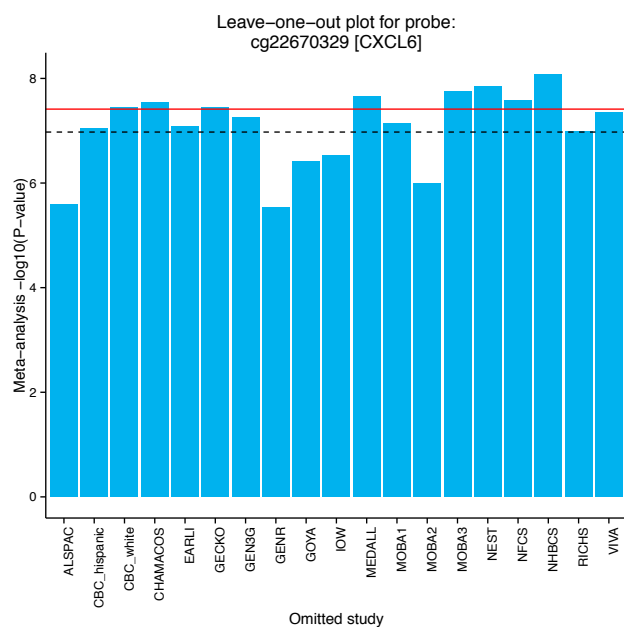
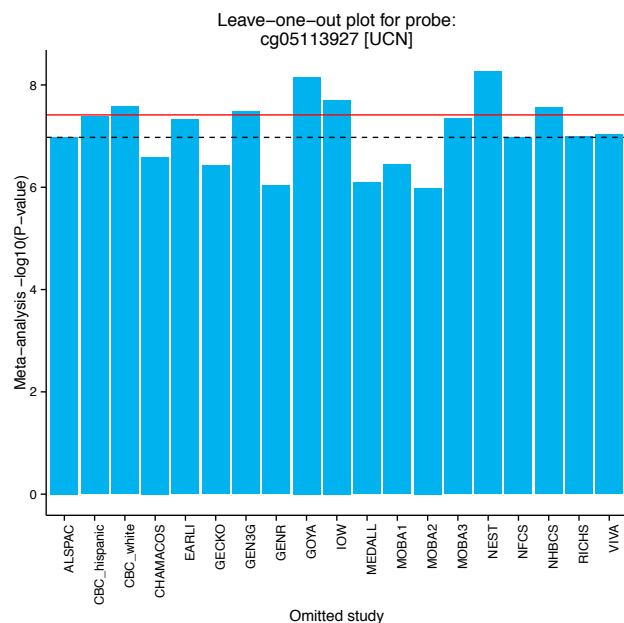
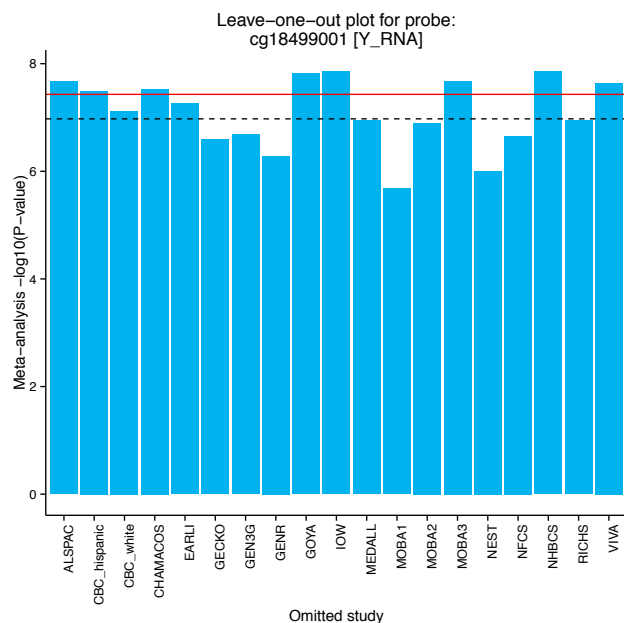


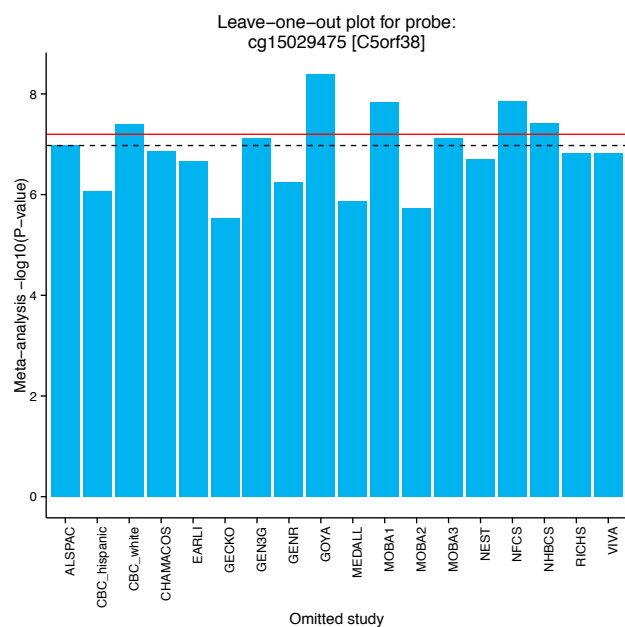
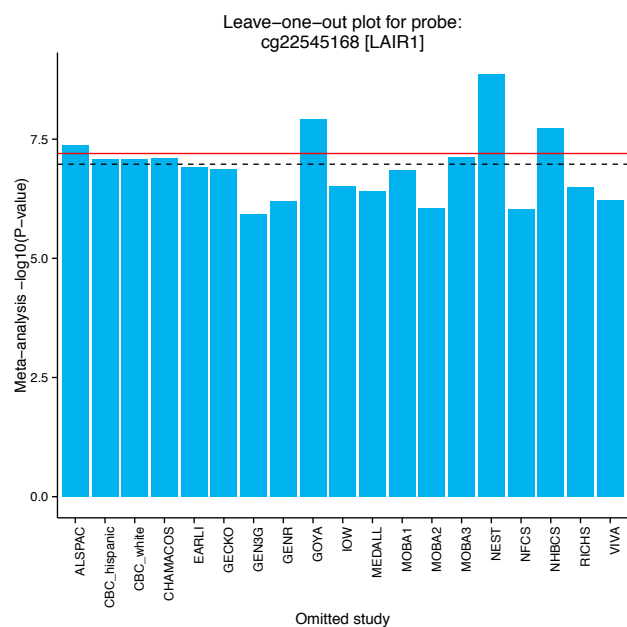
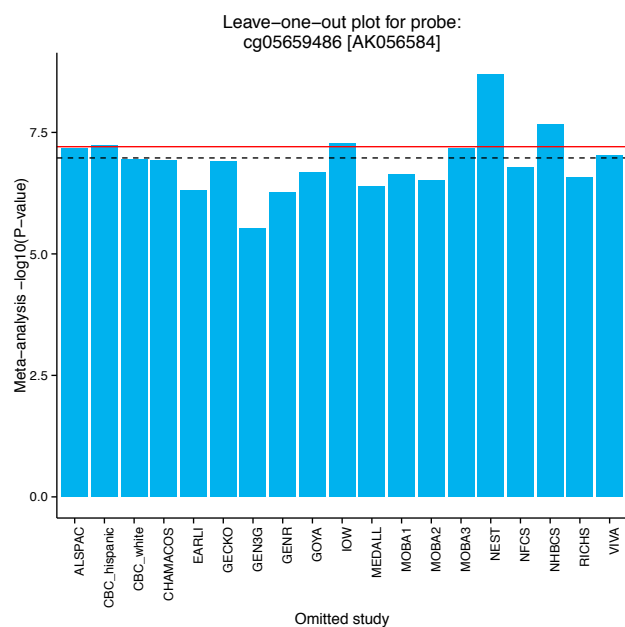
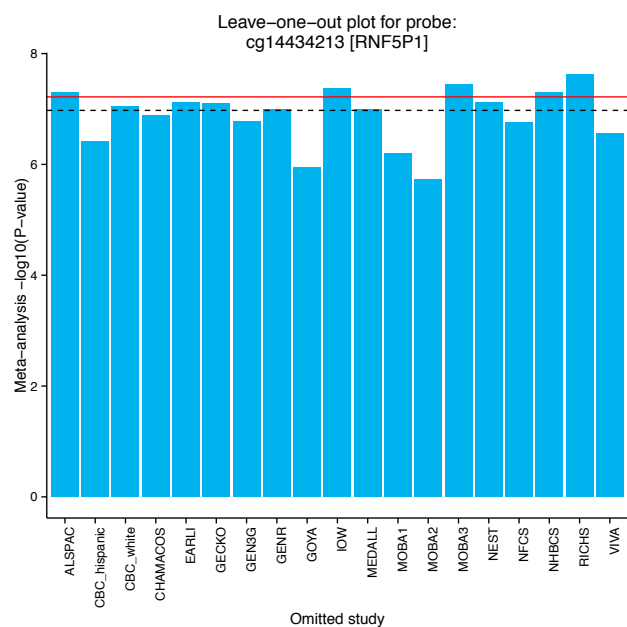
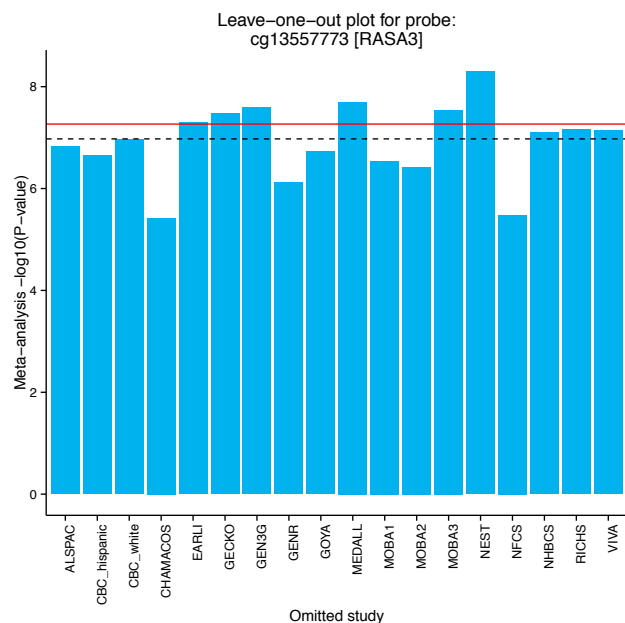
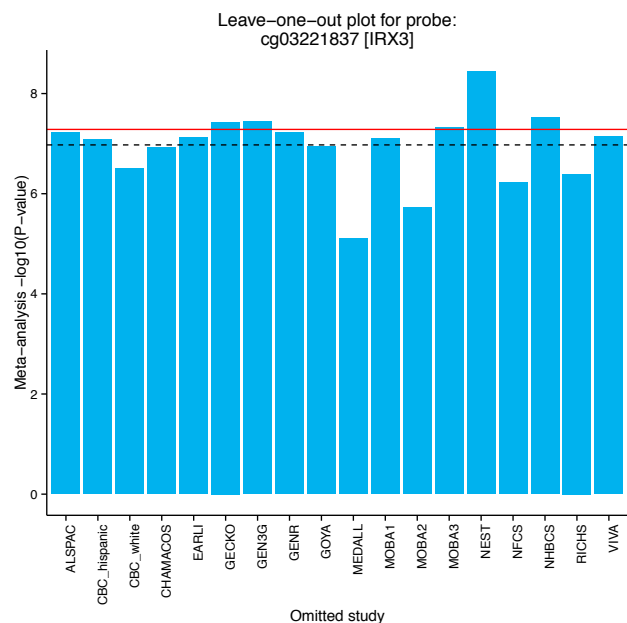


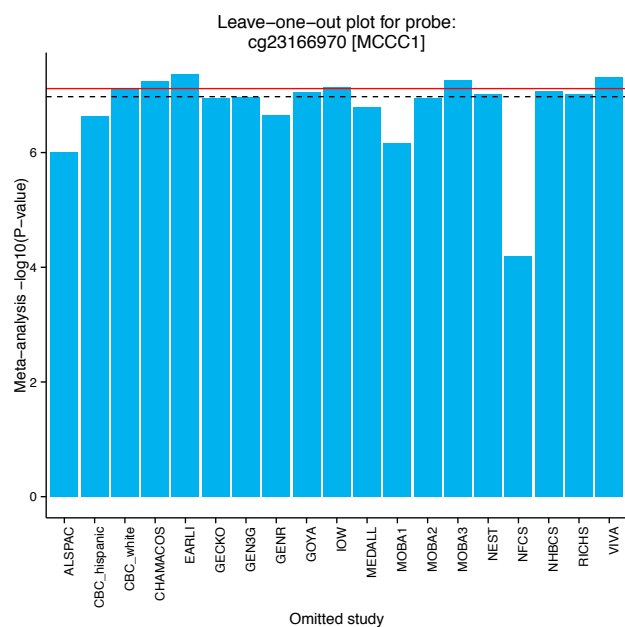
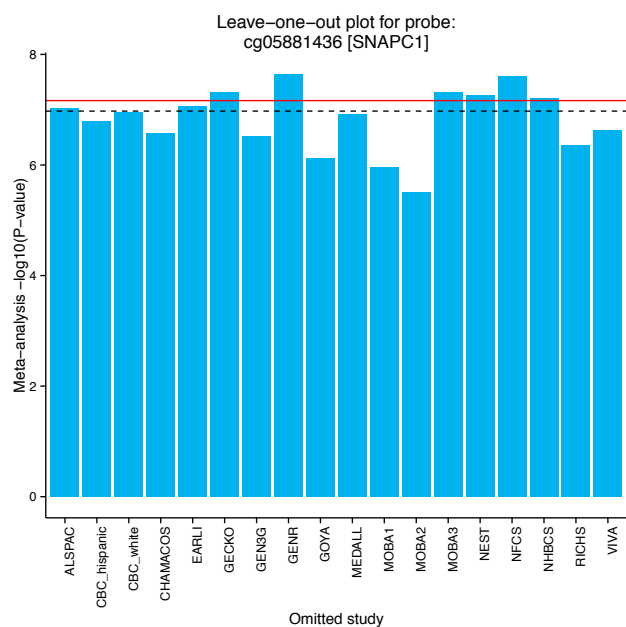
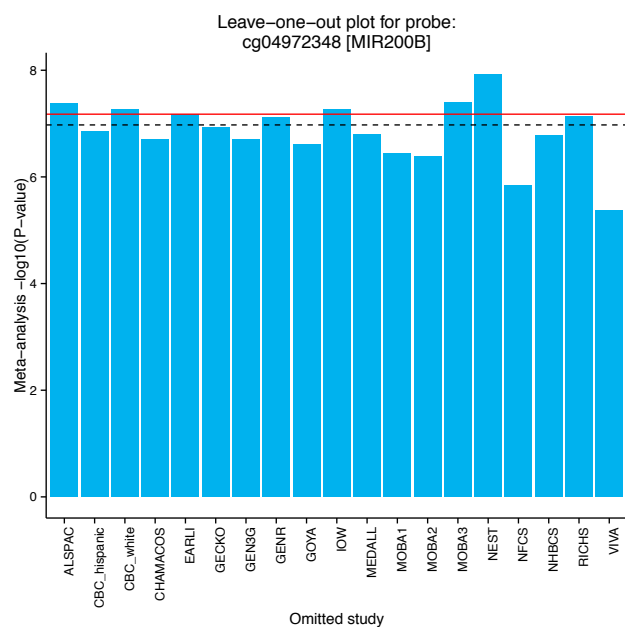
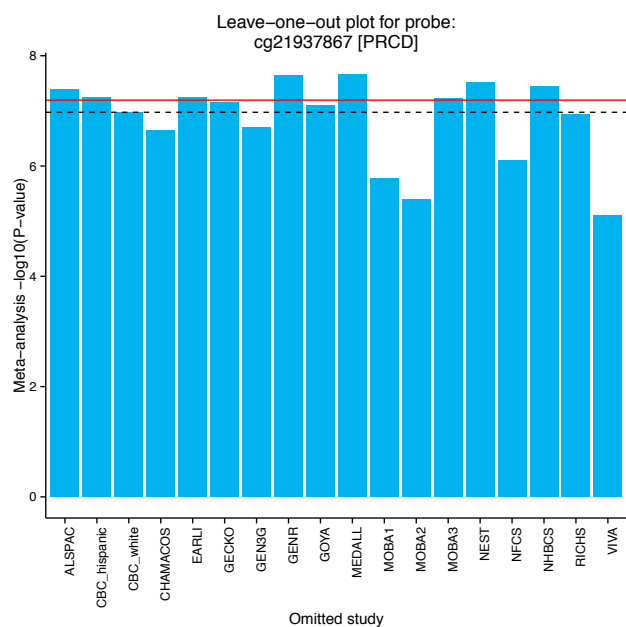
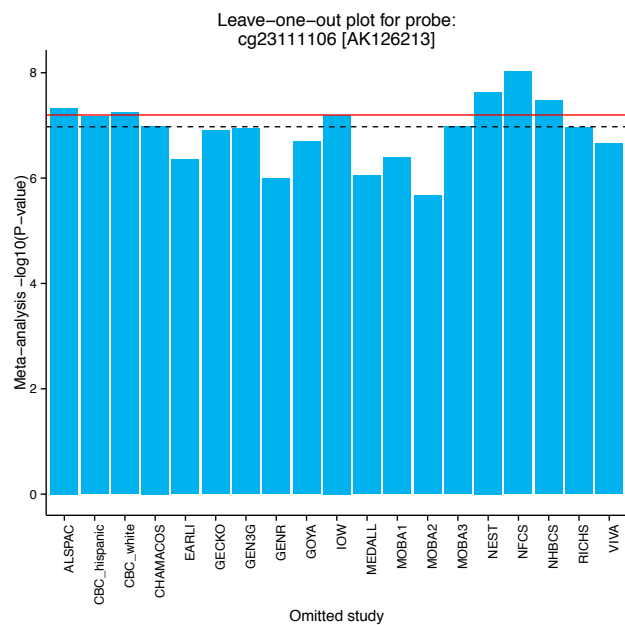
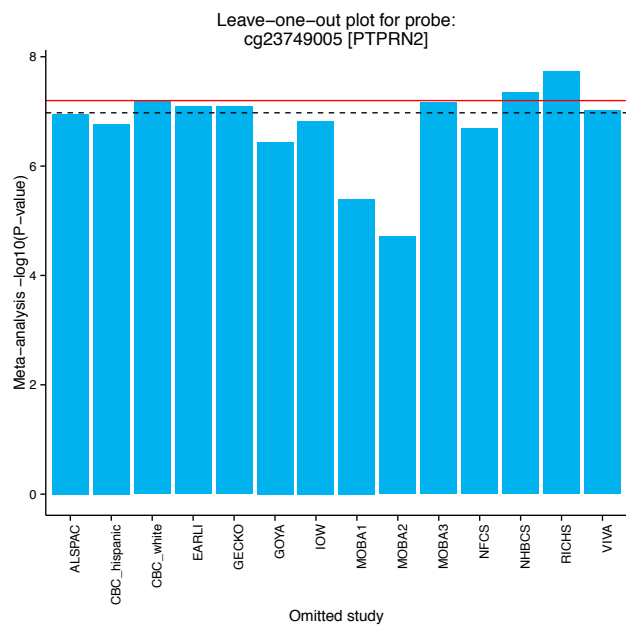


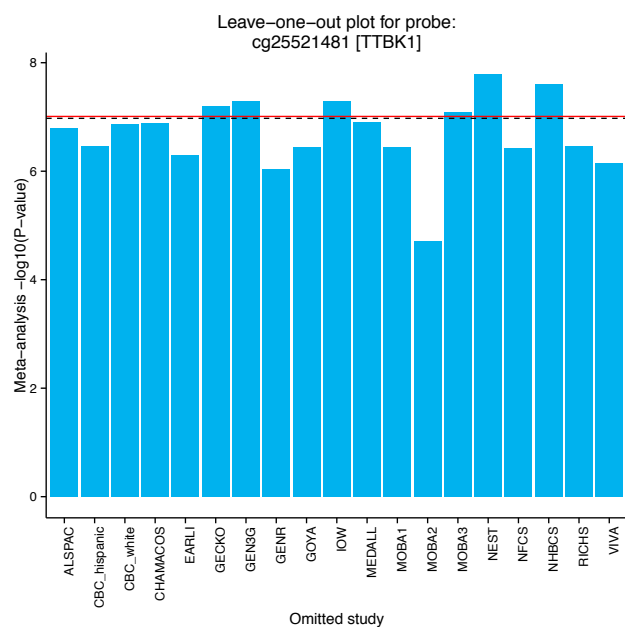
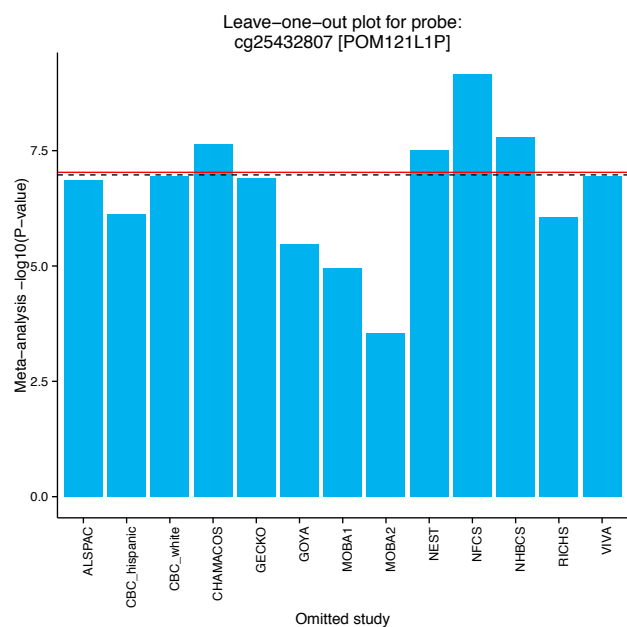
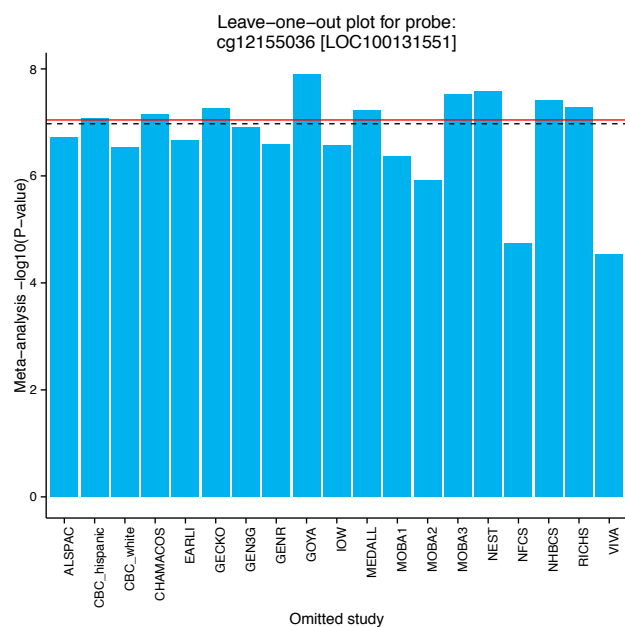
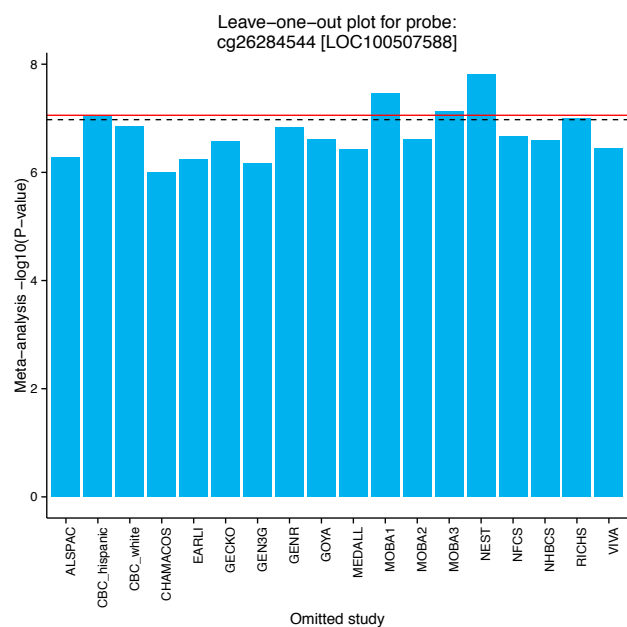
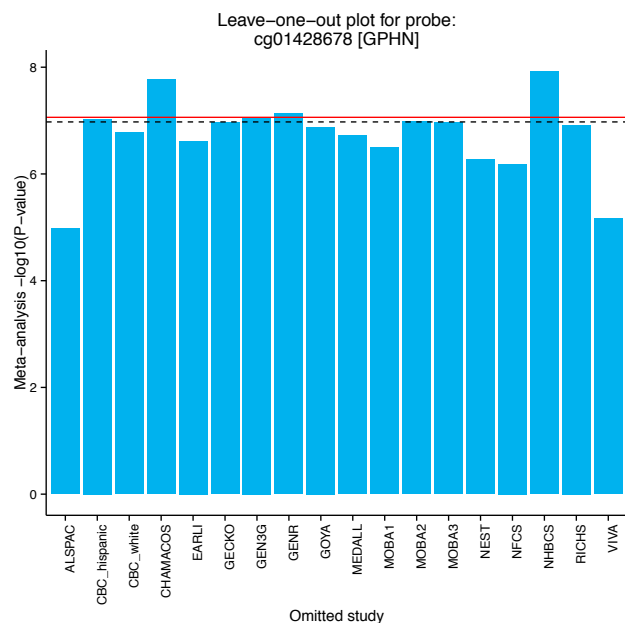
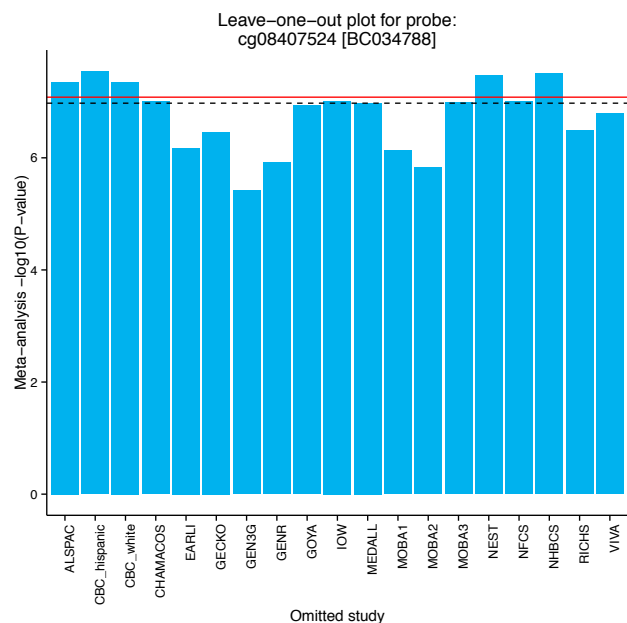


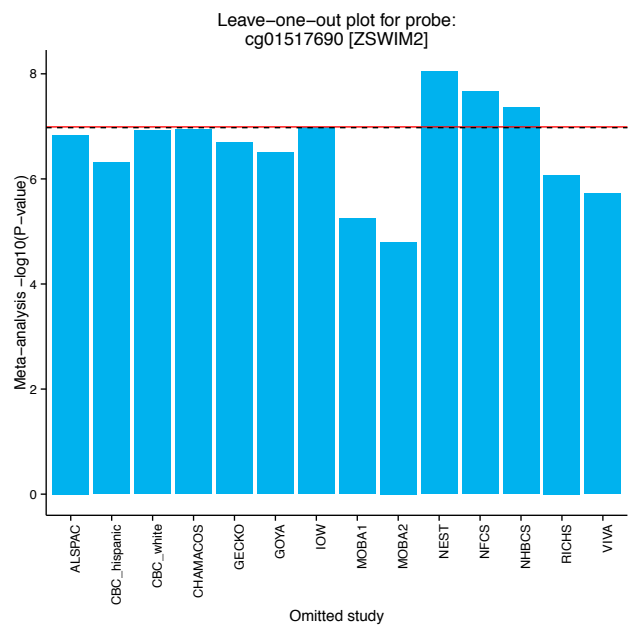
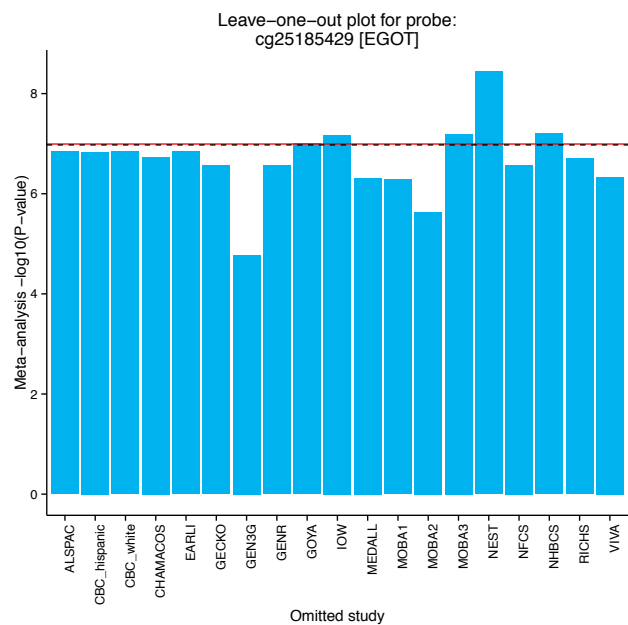






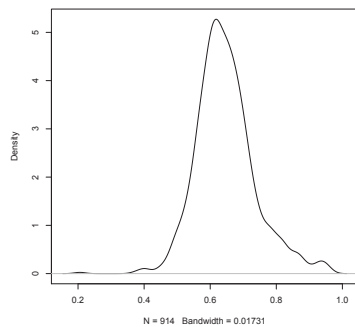




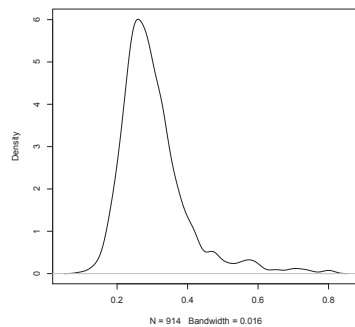


## Density plots: ALSPAC

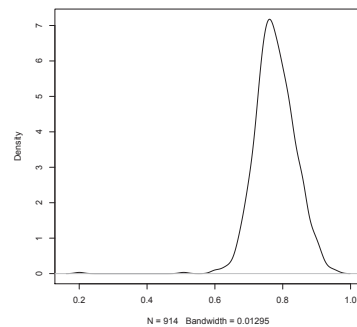
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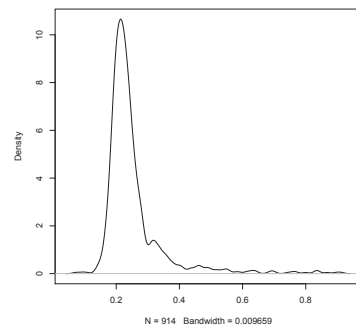
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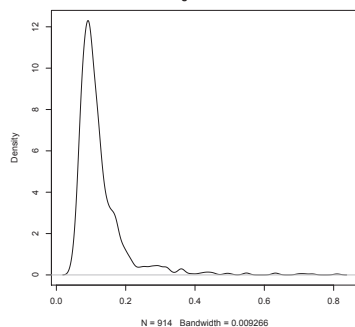
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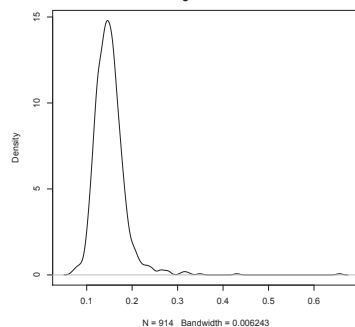
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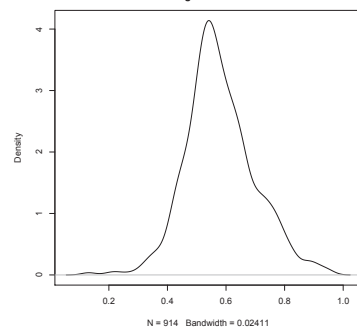
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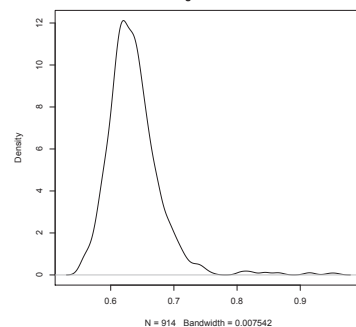
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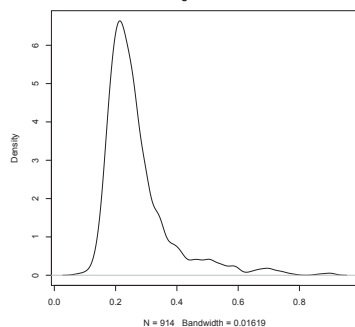
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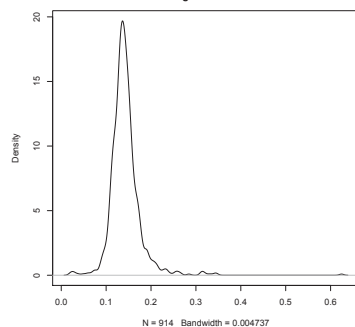
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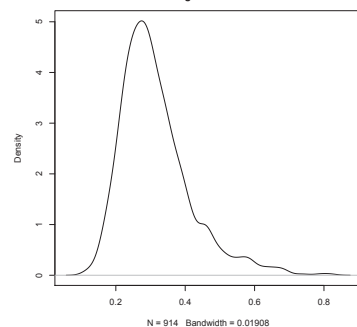
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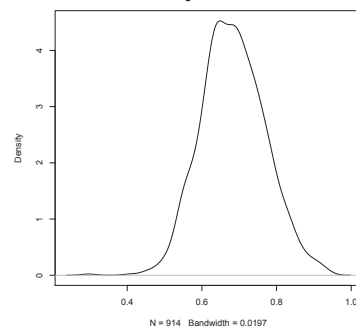
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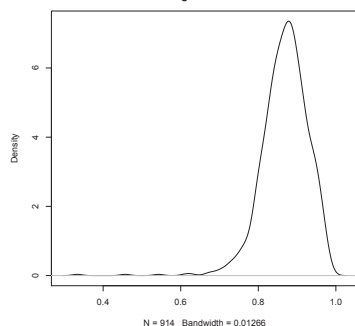
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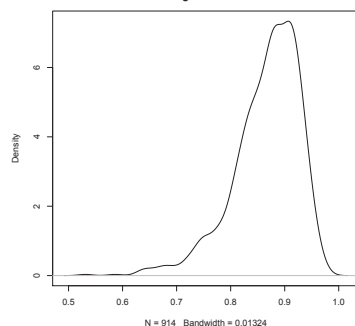
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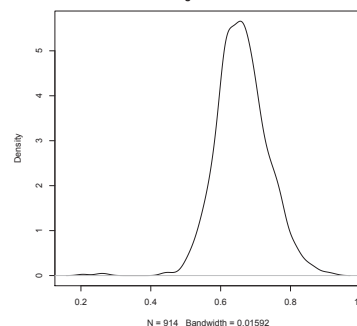
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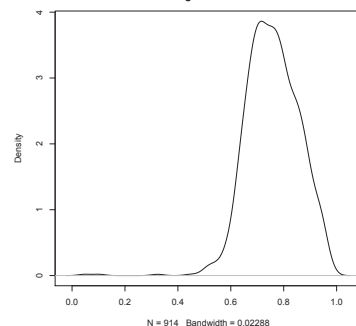
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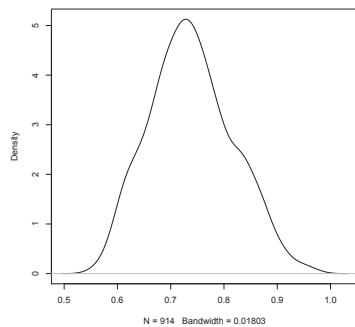


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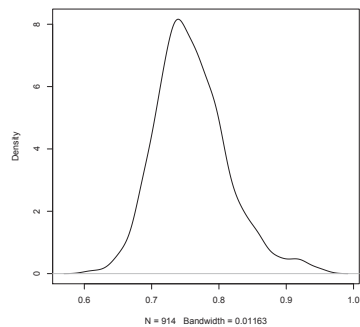




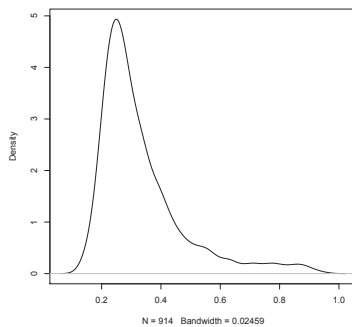
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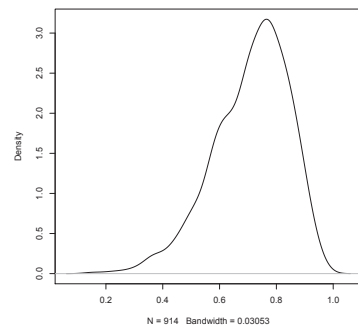
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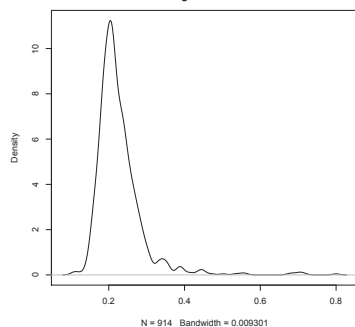
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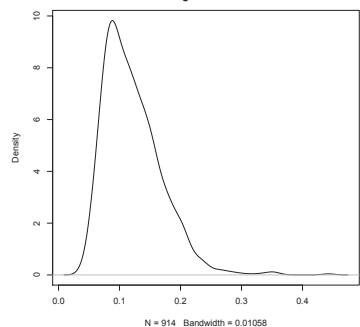
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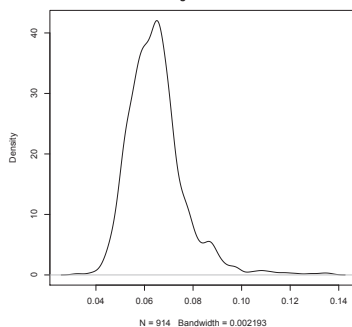
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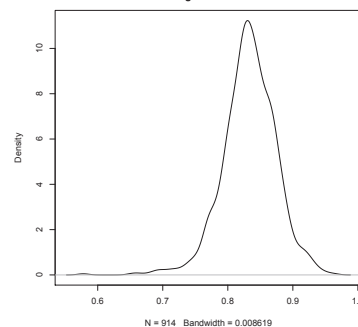
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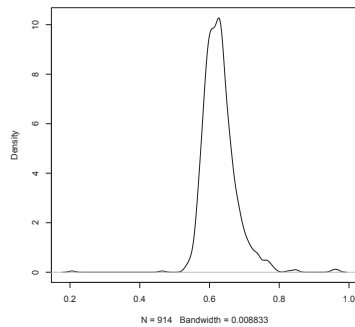
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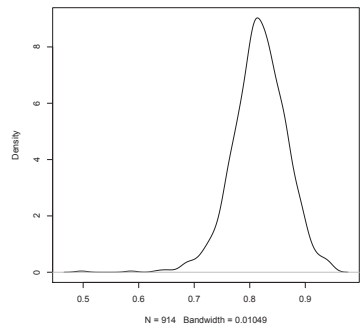
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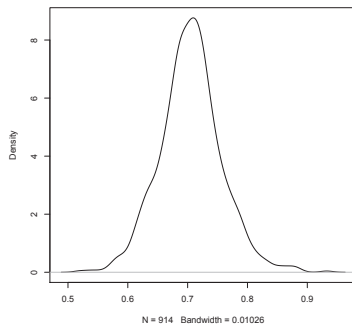
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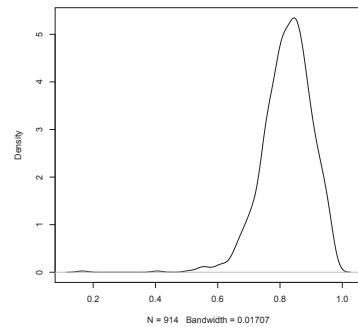
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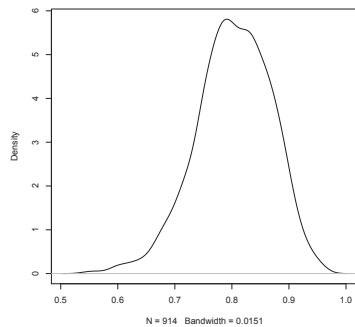
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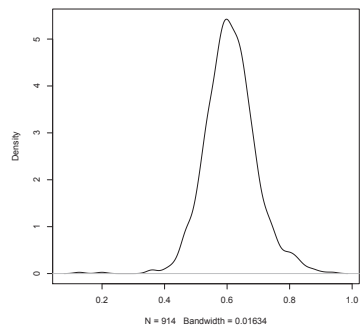
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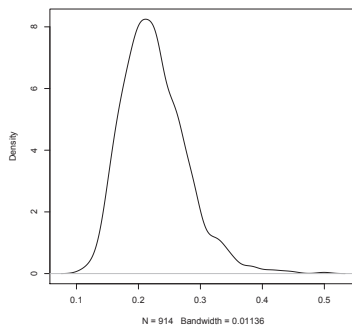
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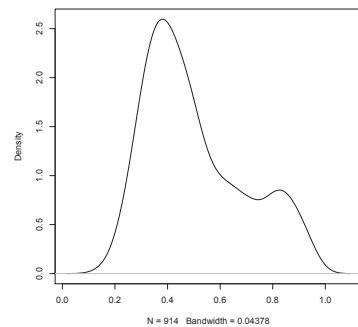
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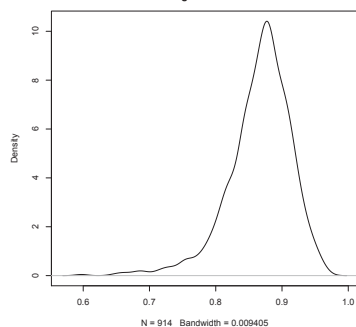
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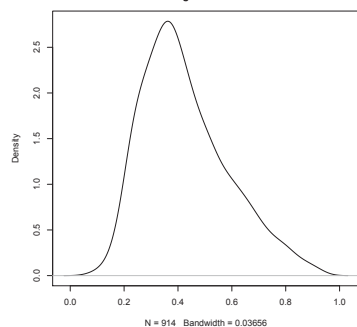
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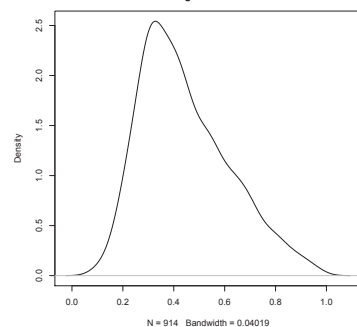
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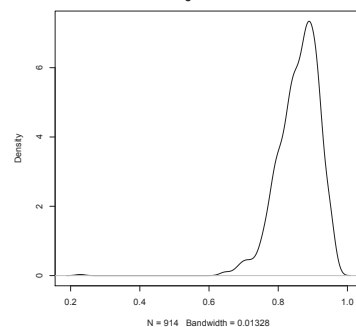
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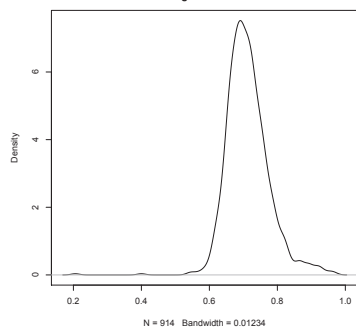
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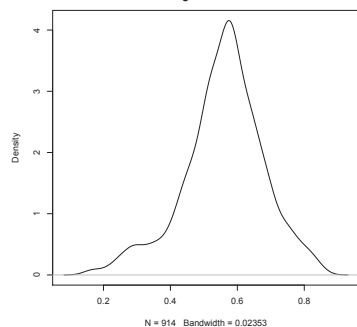
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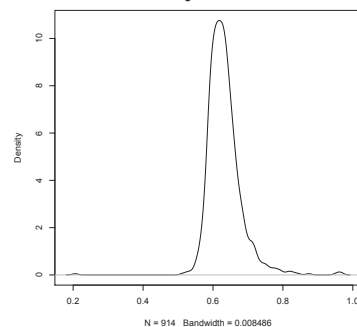
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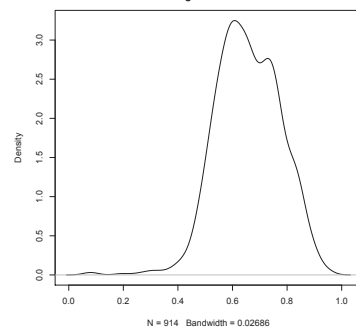
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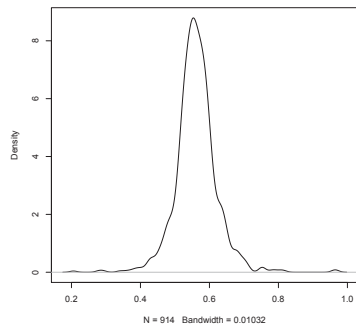
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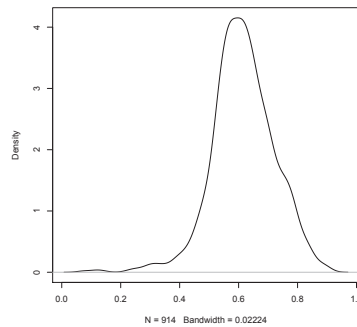
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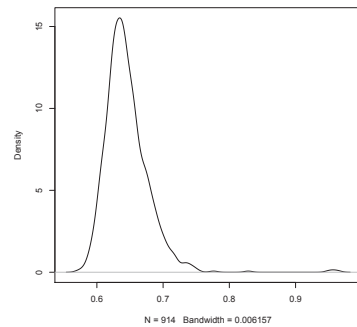
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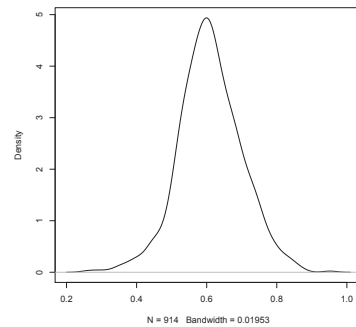
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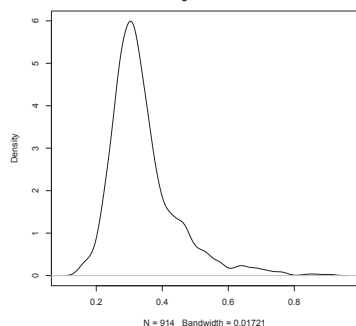
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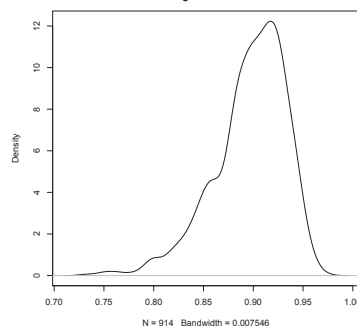
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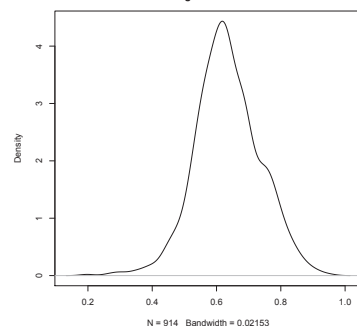
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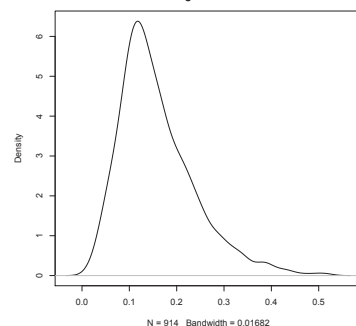
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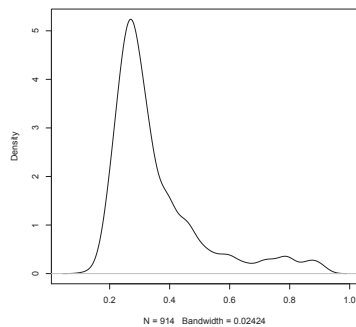
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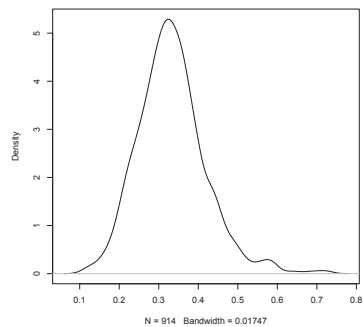
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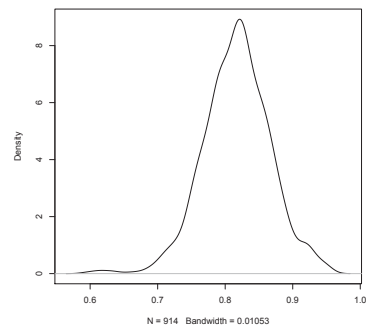
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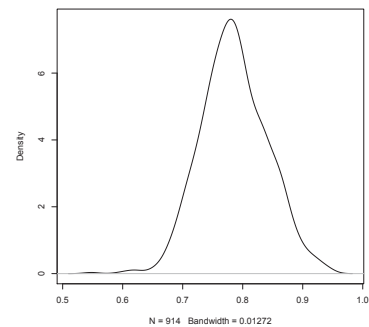
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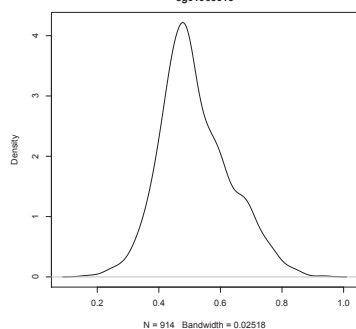
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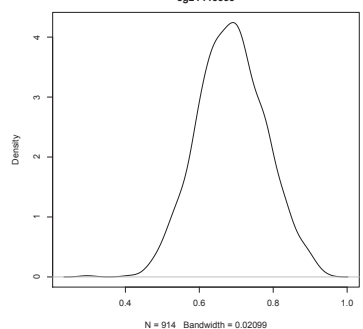
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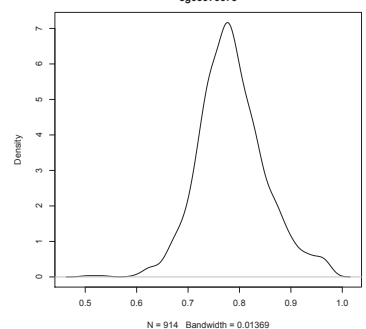
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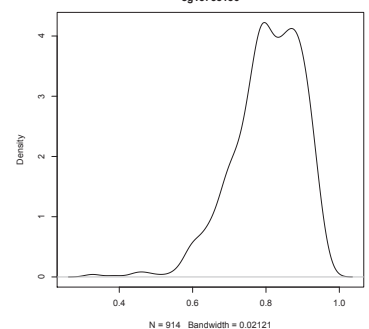
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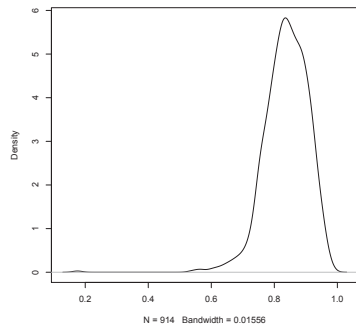
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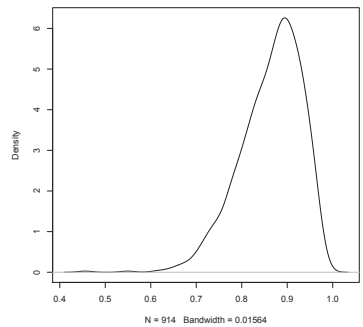
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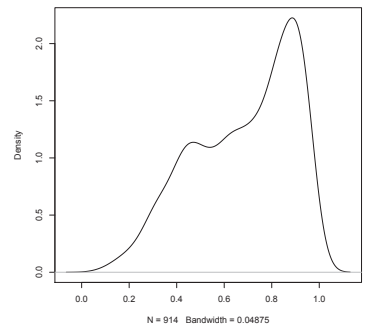
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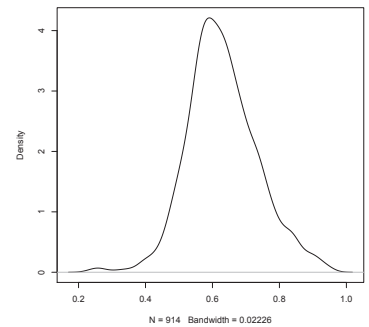
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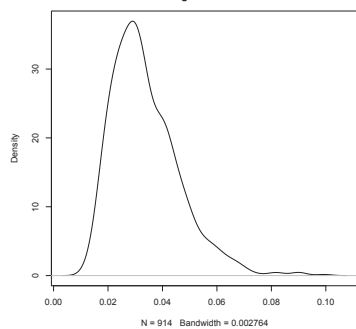
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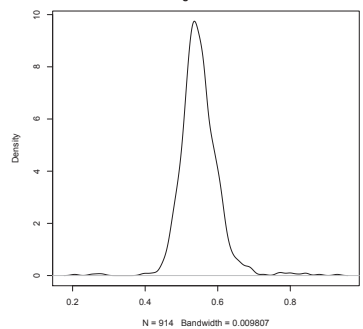
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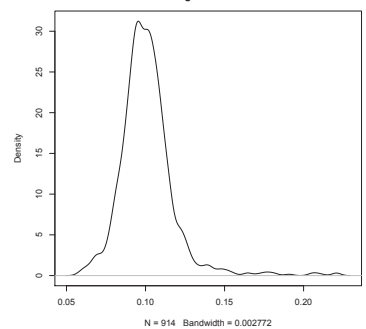
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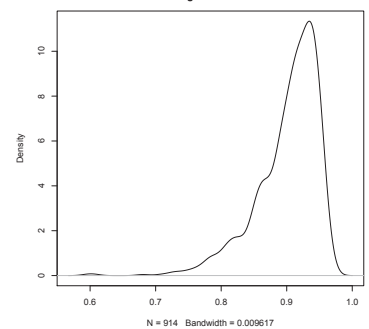
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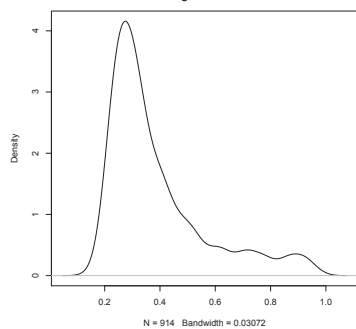
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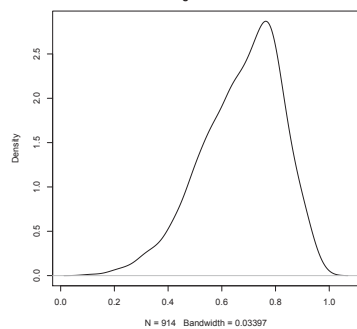
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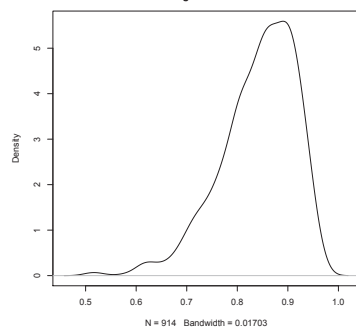
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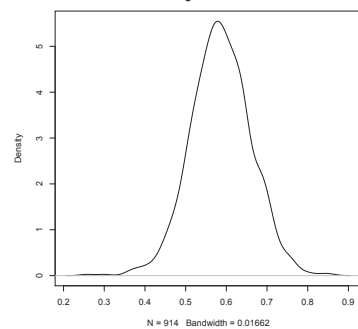
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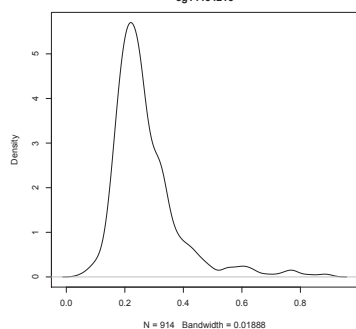
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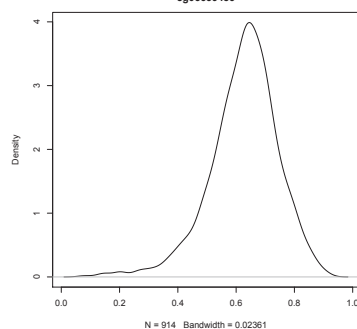
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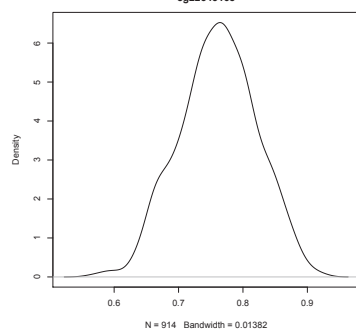
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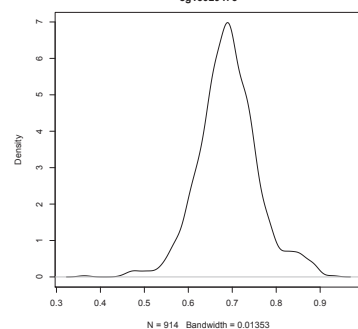
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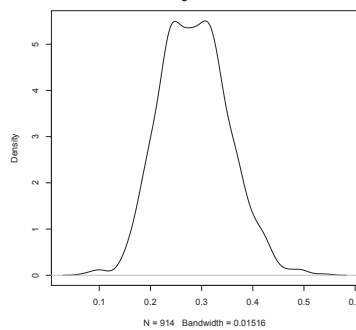
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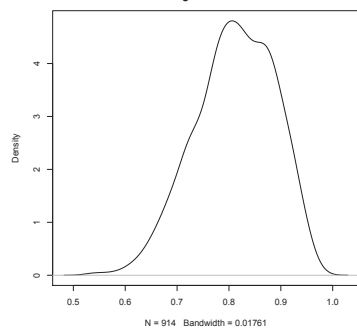
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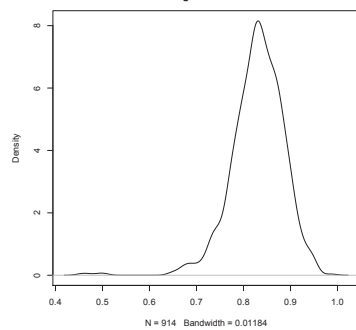
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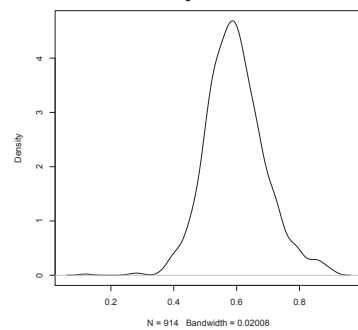
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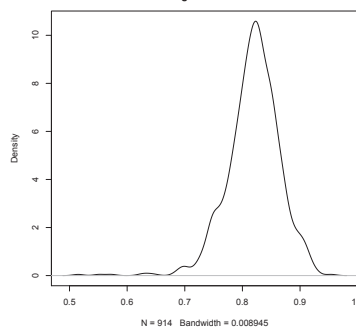
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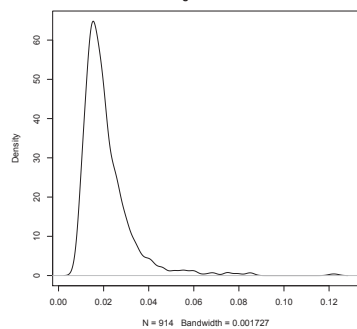
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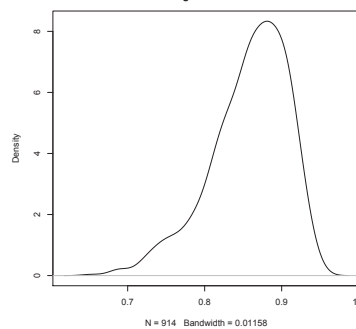
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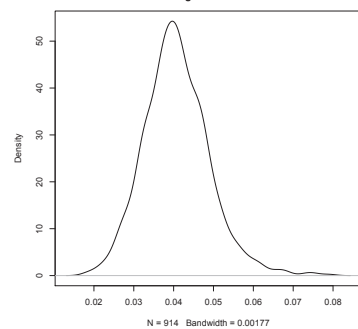
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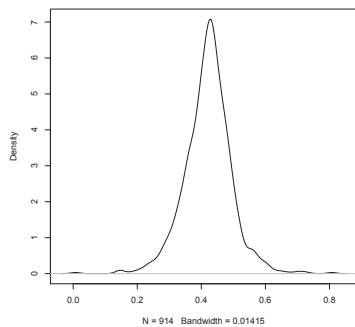
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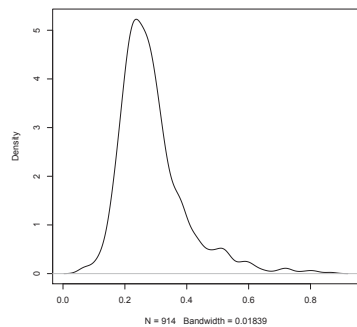
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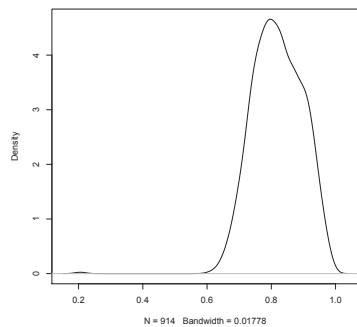
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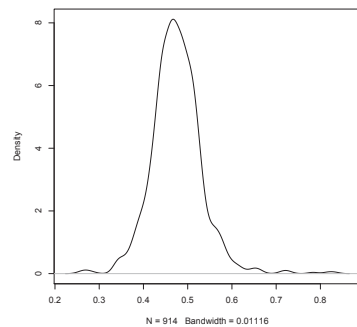
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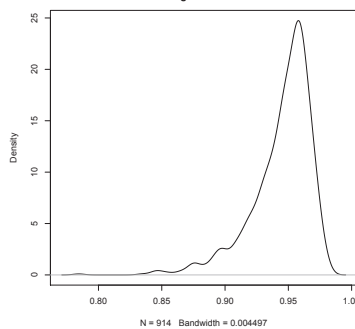
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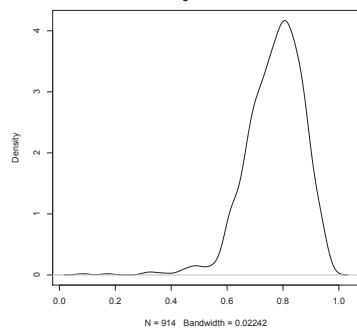
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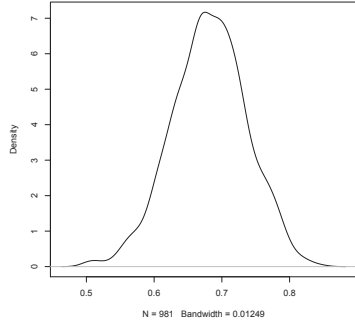


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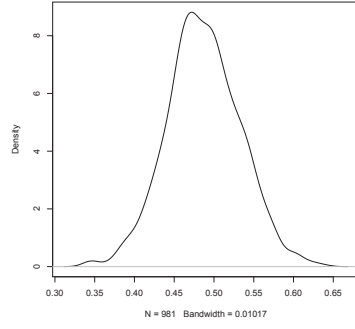


Density plots: GOYA

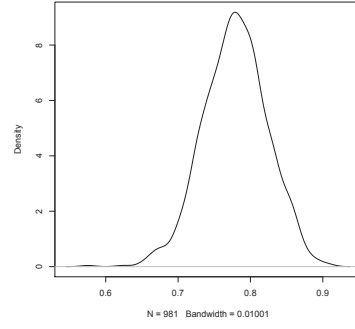
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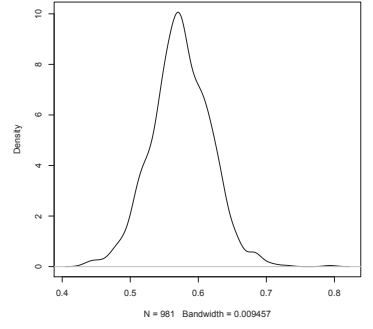
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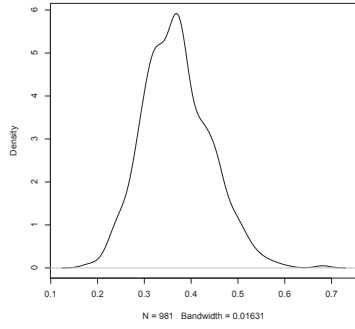
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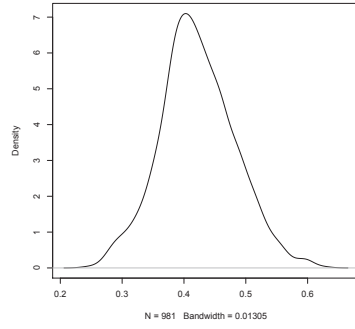
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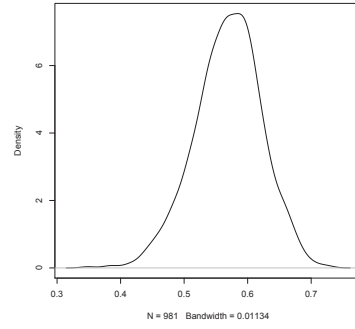
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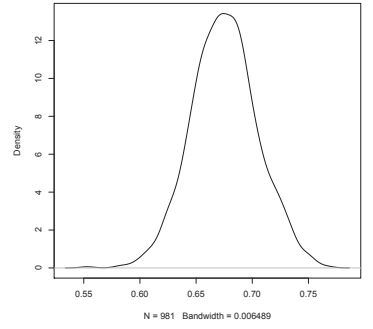
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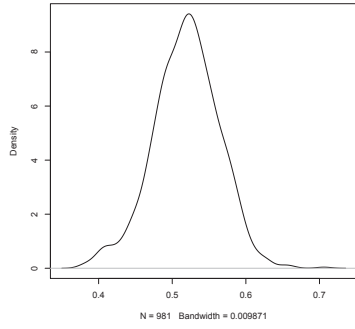
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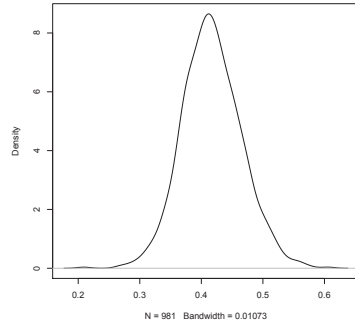
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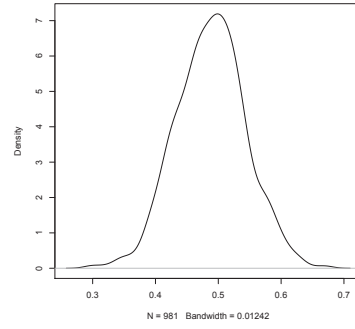
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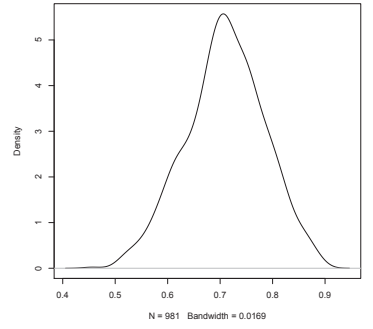
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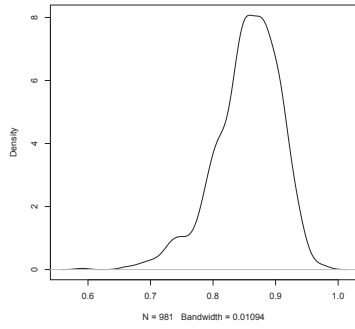
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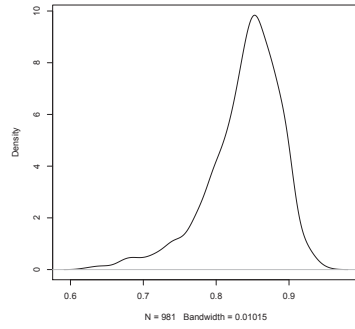
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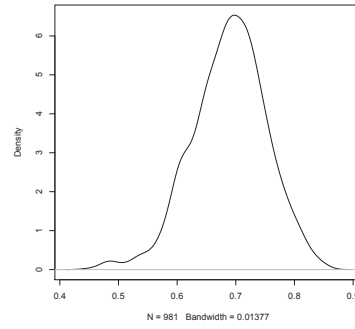
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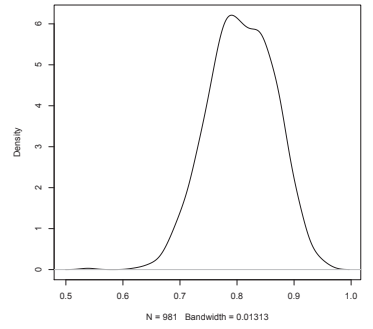
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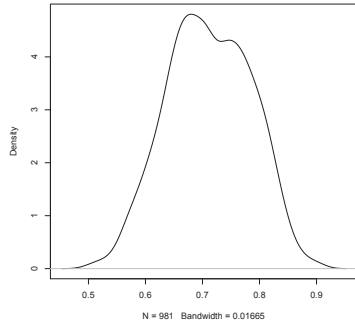
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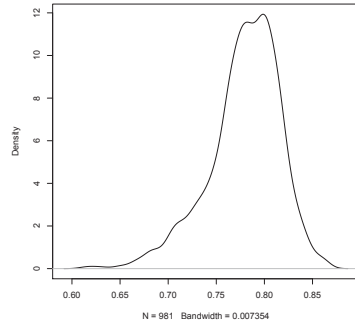
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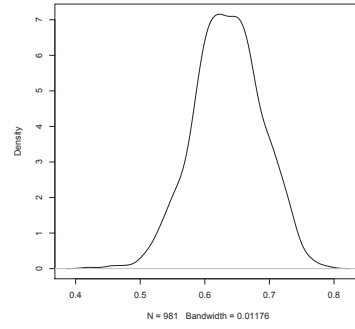
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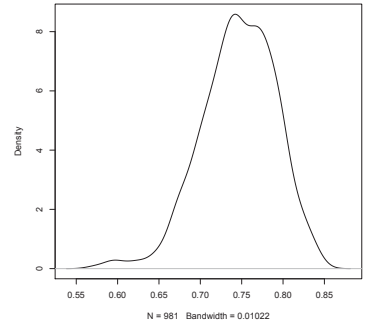
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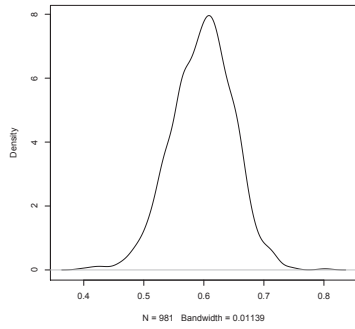
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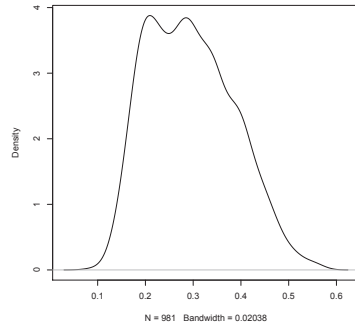
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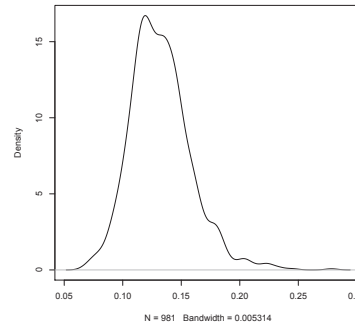
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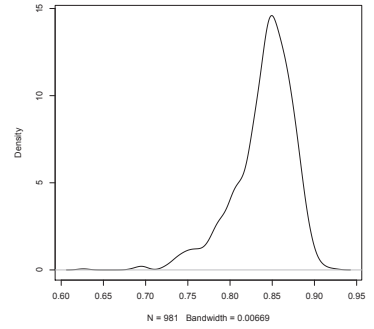
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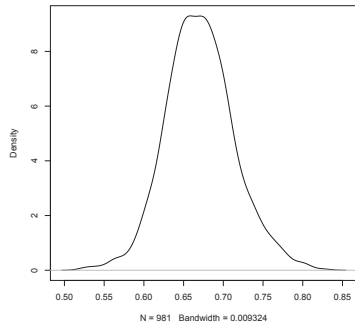
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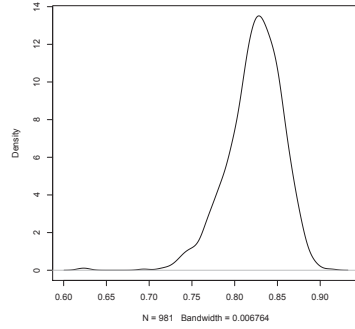
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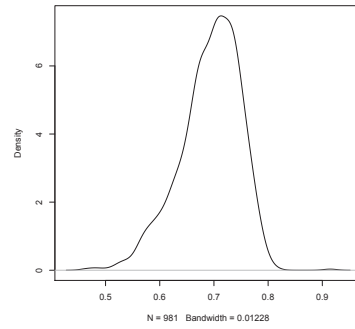
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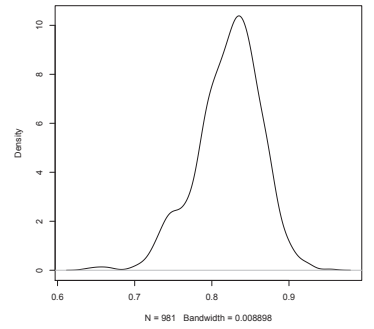
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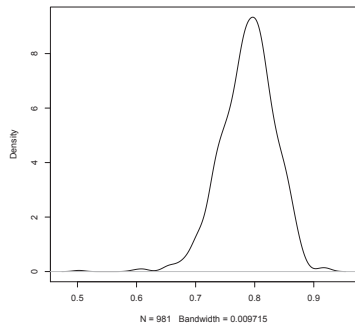
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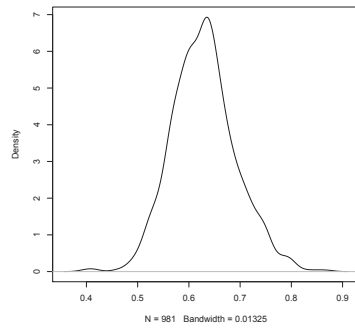
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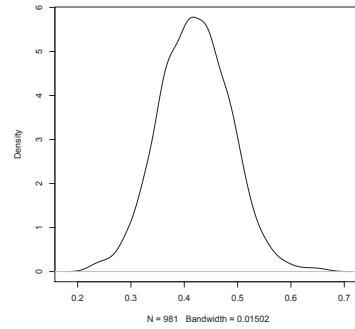
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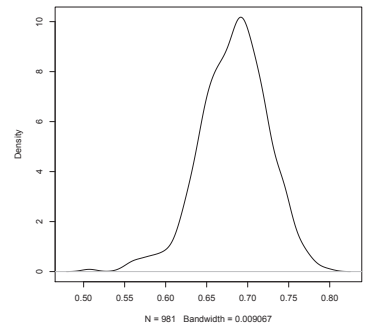
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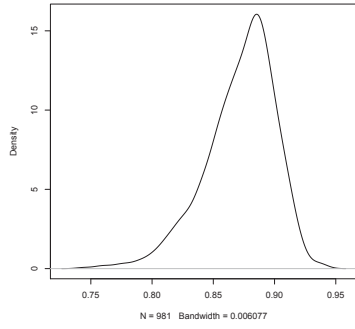


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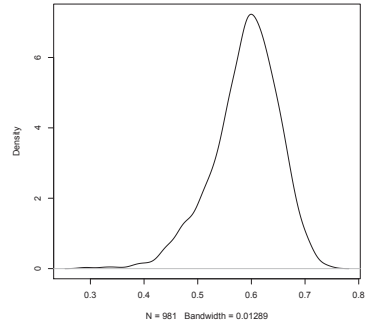




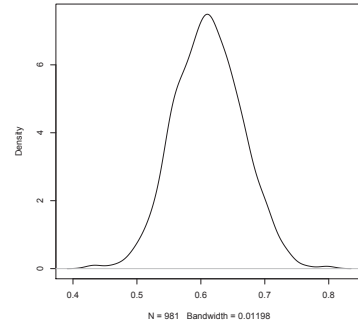
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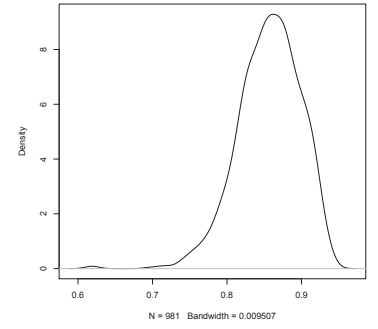
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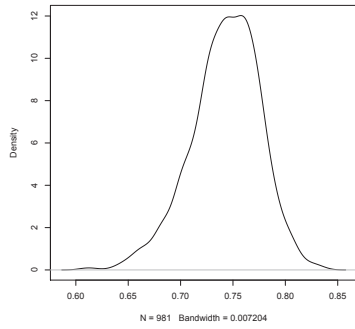
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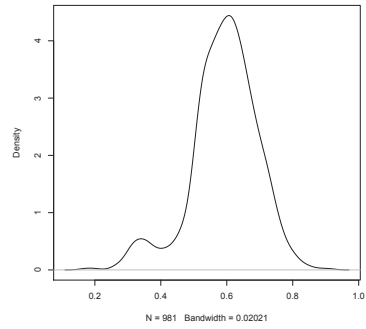
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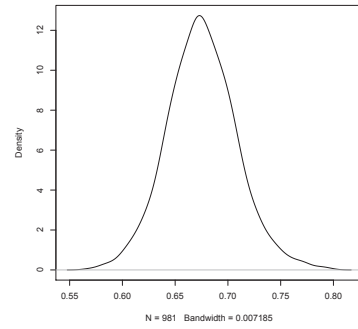
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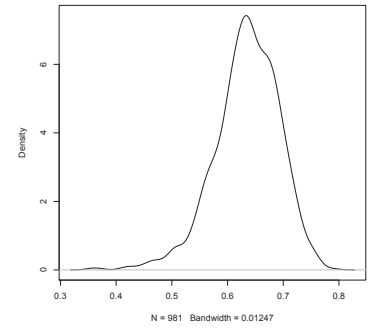
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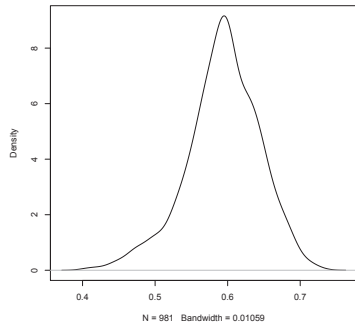
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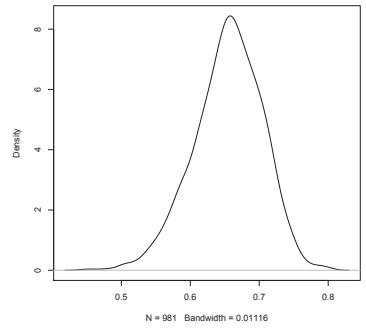
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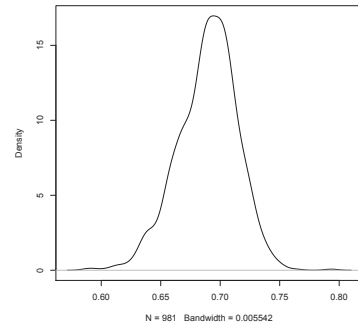
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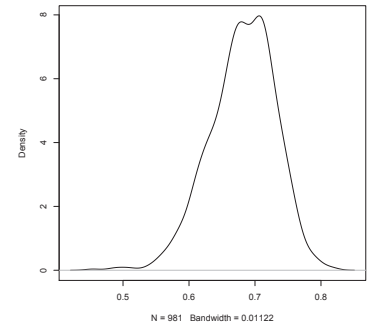
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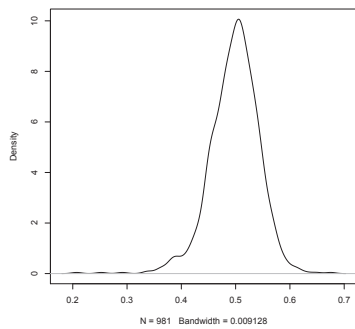
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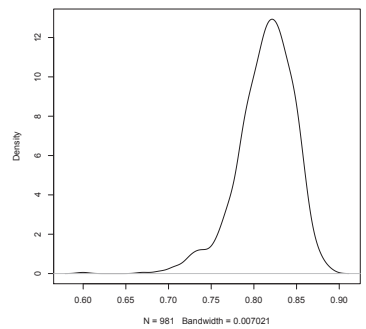
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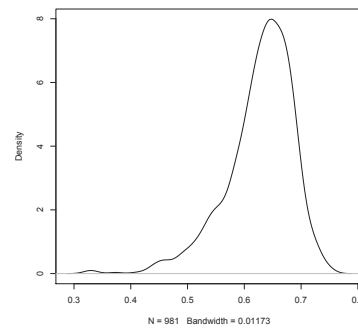
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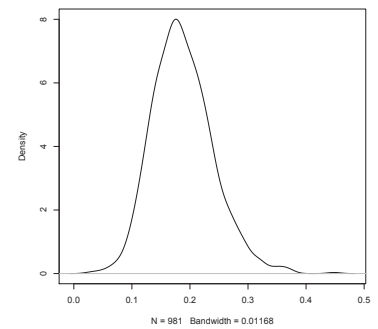
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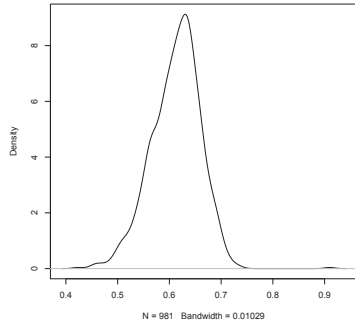
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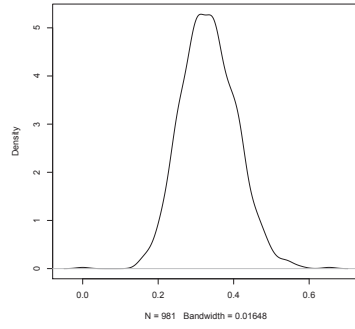
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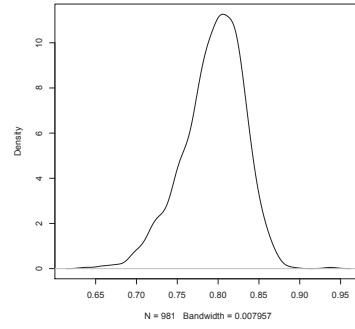
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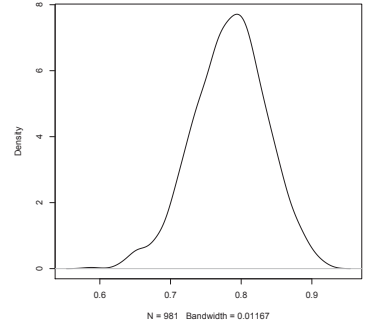
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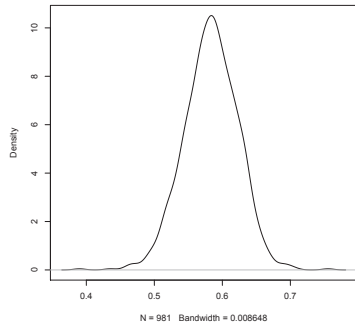
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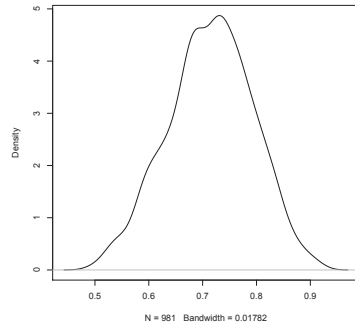
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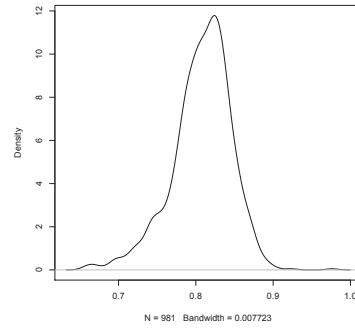
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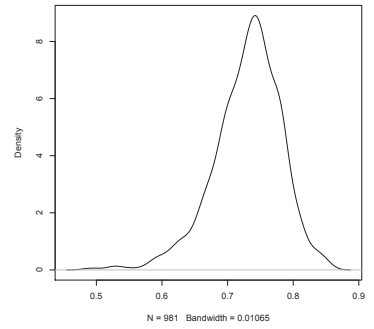
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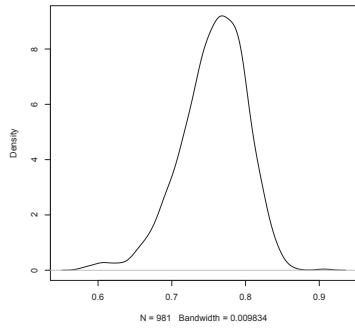
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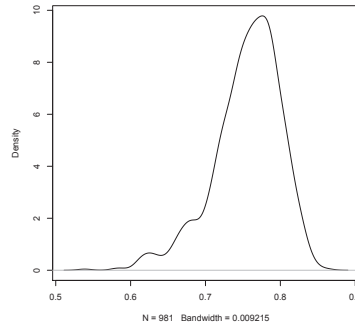
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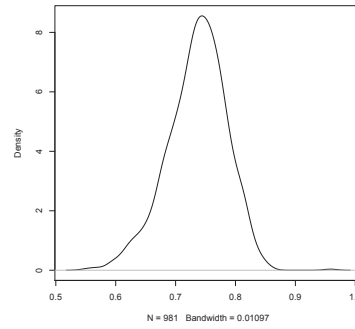
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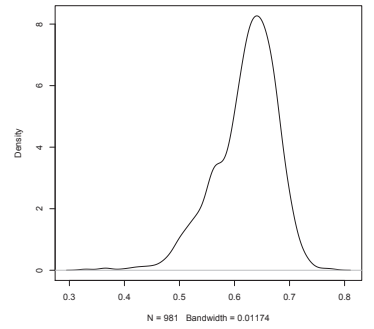
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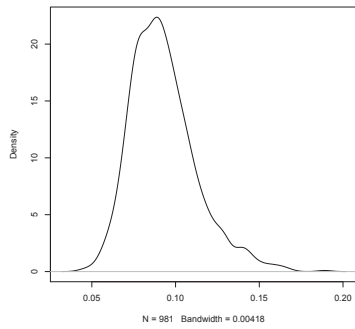
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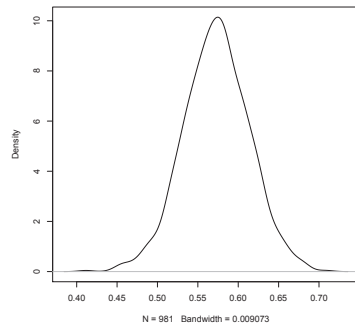
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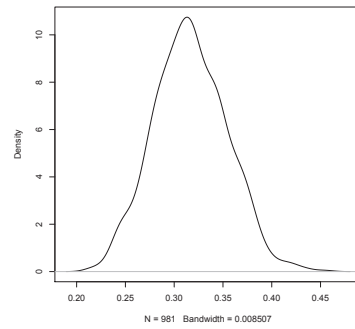
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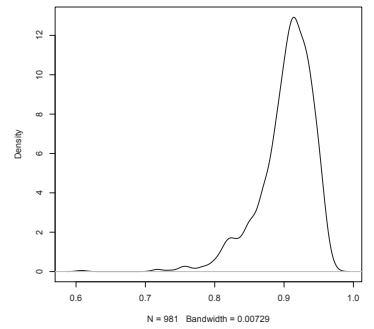
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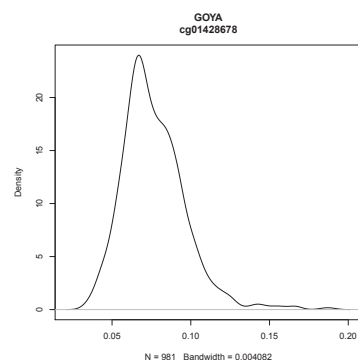
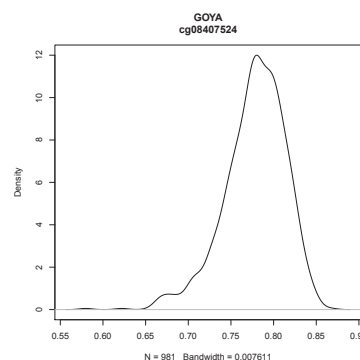
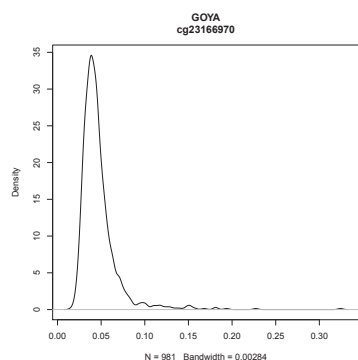
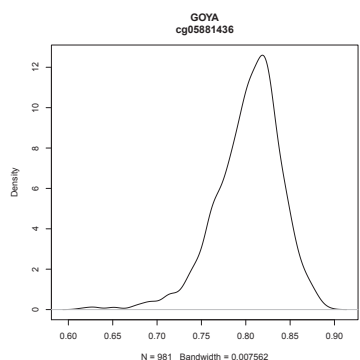
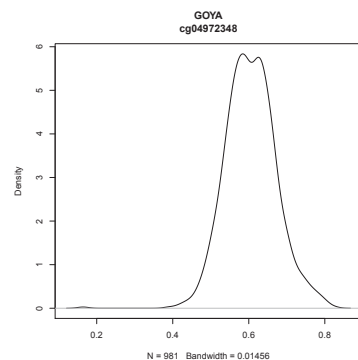
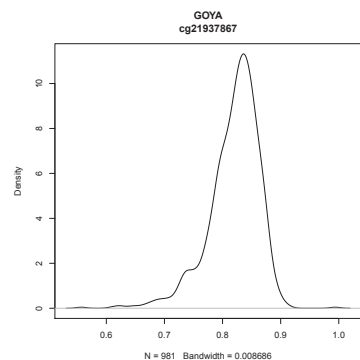
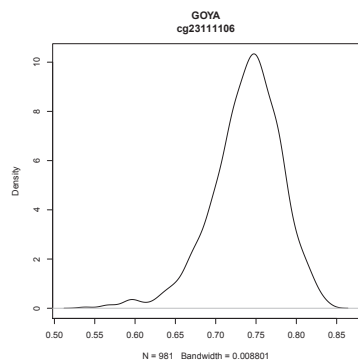
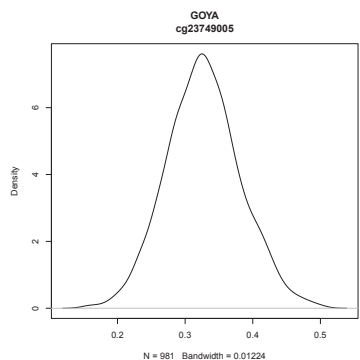
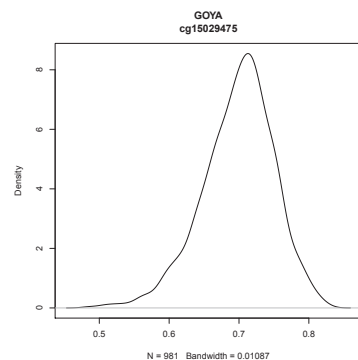
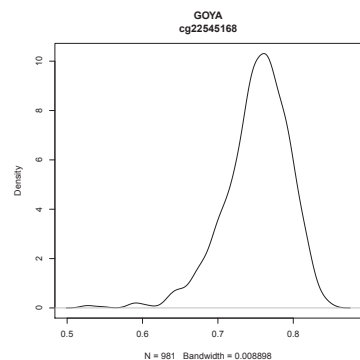
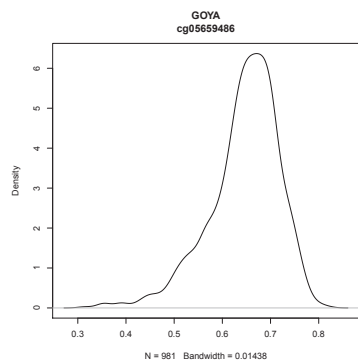
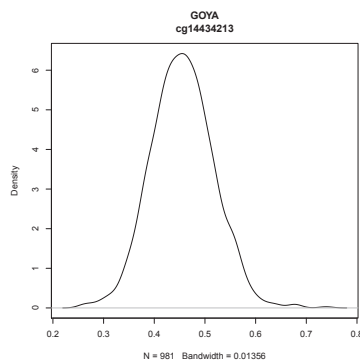
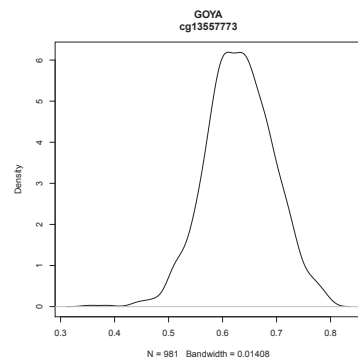
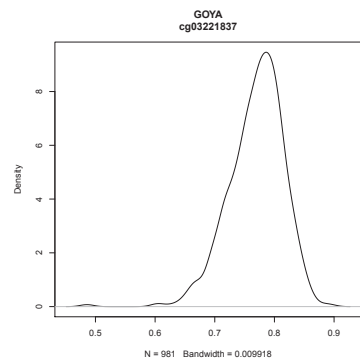
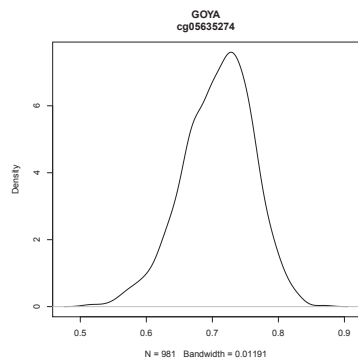
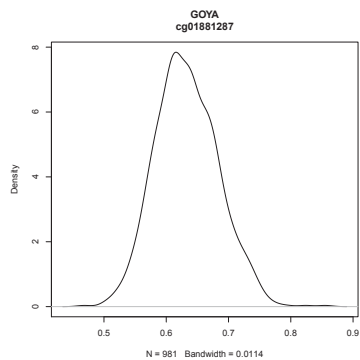


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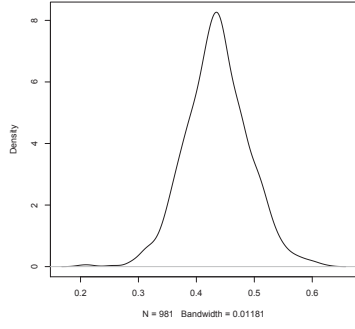


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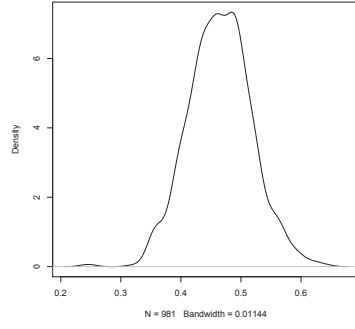




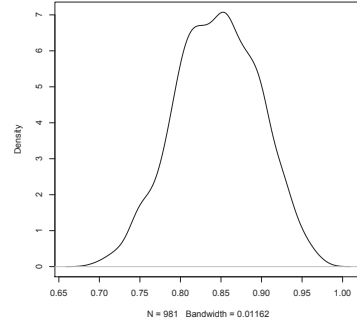
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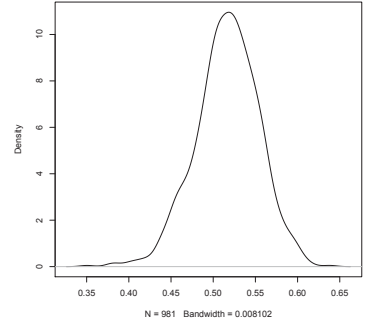
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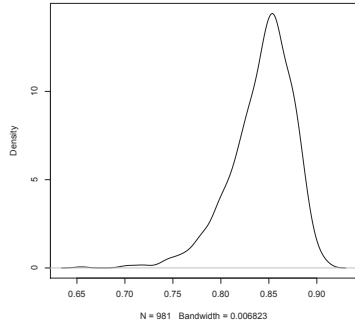
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